



FACULTY OF
COMPUTER SCIENCE
AND INFORMATION
TECHNOLOGY



**INNOVATIVE
FRONTIER**
*Empowering Young
Minds to Shape the
Digital Future*

Computer Science

Software Engineering



CSIT-UPM iFYP2026

CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition

Organized by Faculty of Computer Science and Information Technology, UPM

PROGRAMME BOOK

11 FEB 2026
WEDNESDAY



CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition

Organized by Faculty of Computer Science and Information Technology, UPM

CSIT-UPM iFYP2026



TABLE OF CONTENT

PREFACE.....	2
DEAN'S ADDRESS.....	3
FOREWORD BY CHAIRPERSON.....	4
EVENT PROGRAM.....	5
TOP 10 PITCHING PRESENTATION SCHEDULE.....	6
POSTER PRESENTATION SCHEDULE.....	8
TRACK 1: SOFTWARE ENGINEERING (SE) AND INDUSTRY (IND).....	8
TRACK 2: MULTIMEDIA (MM).....	12
TRACK 3: COMPUTER SCIENCE (CS).....	14
TRACK 4: NETWORKING, SYSTEMS AND INFRASTRUCTURE (NSI)...	16
RESULTS (SEMI FINAL).....	18
GOLD AWARD.....	18
SILVER AWARD.....	24
BRONZE AWARD.....	29
LIST OF JURIES.....	32
LOCAL.....	33
INTERNATIONAL.....	37
COMMITTEE MEMBERS.....	39
ACKNOWLEDGEMENT.....	42
COLLABORATORS.....	43

PREFACE

The **CSIT-UPM International Final Year Project Exhibition and Competition 2026 (CSIT-UPM iFYPX 2026)**, is an academic and innovation-focused event organised by the Faculty of Computer Science and Information Technology at Universiti Putra Malaysia (UPM). Guided by the theme “**Innovative Frontiers: Empowering Young Minds in Shaping the Digital Future**”, this hybrid exhibition and competition brings together final-year students from diverse computing and IT disciplines to present their Final Year Projects (FYPs), demonstrating creativity, technical proficiency, and problem-solving capabilities to both academic and industry audiences. Participants are invited to register and showcase their work on an international stage, with opportunities to compete for awards across multiple tracks such as software engineering, multimedia, computer science, and communication technologies.

Scheduled from submission and preliminary rounds in late December 2025 through to the final presentation on **11 February 2026**, the event serves not only as a platform for recognition of student achievement but also as a gateway to professional engagement and potential collaboration beyond the university. Through organised project presentations, evaluations, and awards, the FYP Showcase highlights the innovation and readiness of emerging talent poised to contribute meaningfully to the global technology landscape.

DEAN'S ADDRESS



The **CSIT-UPM International Final Year Project Exhibition and Competition 2026 (CSIT-UPM iFYPX 2026)** is a flagship programme organised by the Faculty of Computer Science and Information Technology (FSKTM), Universiti Putra Malaysia (UPM), under the theme **“Innovative Frontiers: Empowering Young Minds in Shaping the Digital Future.”** The programme integrates exhibitions, competitions, and industry showcases to foster academic excellence and professional engagement.

This event provides a platform for final-year students from UPM and international institutions to present their innovative Final Year Projects (FYPs) across four main computing tracks: **Computer Science, Multimedia, Network Systems & Infrastructure, and Software Engineering.** CSIT-UPM iFYPX 2026 brings together students from diverse computing and IT disciplines to demonstrate creativity, technical proficiency, and problem-solving capabilities to both academic and industry audiences. Participants can showcase their work on an international stage and compete for awards across multiple categories.

With submission and preliminary evaluations in late December 2025 and the final presentations on 11 February 2026, the event recognises student achievement while promoting professional networking and potential collaboration beyond the university.

Thank you, and we wish all participants a successful and inspiring showcase.

“WITH KNOWLEDGE WE SERVE”

YBhg. Dato' Prof. Dr. Shamala K. Subramaniam

Dean of FSKTM, UPM

FOREWORD BY CHAIRPERSON



On behalf of the organizing committee, I am honored to welcome you to the **CSIT-UPM International Final Year Project Exhibition and Competition 2026 (CSIT-UPM iFYPX 2026)**. Hosted by the Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, this year's theme, "Innovative Frontiers: Empowering Young Minds in Shaping the Digital Future," The programme combines exhibition, competition, and industry showcase, allowing students from UPM and abroad to present innovative research.

For this CSIT-UPM iFYPX 2026i, **162 projects** were received from local and international institutions, including 42 in Software Engineering, 26 in Multimedia, 40 in Network Systems & Infrastructure, and 54 in Computer Science, reflecting diversity, quality, and interdisciplinary strength.

We are deeply grateful to our **101 juries**, including international experts from Malaysia, Saudi Arabia, the Philippines, Iraq, and Kazakhstan, for ensuring the highest standards of academic excellence.

My sincere appreciation goes to the UPM management, our industry collaborators, dedicated supervisors, and the tireless organizing committee. Most importantly, I congratulate the students and our **66 Gold Award winners** for their technical brilliance and communication skills. It is our hope that this platform fosters meaningful collaboration and inspires the next generation of digital leaders.

Thank you, and I wish all participants an enriching experience.

“WITH KNOWLEDGE WE SERVE”

Assoc. Prof. Dr. Noraini Che Pa

CHAIRPERSON



CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition
Organized by Faculty of Computer Science and Information Technology, UPM



EVENT PROGRAM

CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT EXHIBITION AND COMPETITION (iFYPX 2026)	
11th February 2026 (Wednesday)	
Venue: Faculty of Computer Science and Information Technology, UPM	
Mode: Hybrid	
8:15 AM – 8:45 AM	Registration / Breakfast
CSIT-UPM iFYPX 2026 Opening Ceremony Venue: Dewan Abdul Azim (DAA)	
8:45 AM – 8:55 AM	Anthem Song, Putra Gemilang Song and Doa Recitation
8:55 AM – 9:10 AM	Address and Official Opening by Dean, Faculty of Computer Science and Information Technology, UPM
9:10 AM – 9:20 AM	Speech by Assoc. Prof. Dr. Noraini Che Pa, Chairperson
9:20 AM – 9:30 AM	CSIT-UPM iFYPX 2026 Opening Ceremony Montage
9:30 AM – 9:50 AM	Token of Appreciation Presentation to Academic Supervisors, Industry Supervisors, Industry Project Judges, Pitching Judges and Poster Judges
9:50 AM – 9:55 AM	Photo Session
10:00 AM - 12:30 PM	TOP 10 Project Pitching
10:00 AM - 12:30 PM	Poster Presentation Track 1: Software Engineering and Industry (Putra Smart Classroom (PSC)) Track 2: Multimedia (iSPACE) Track 3: Computer Science (Software Engineering Laboratory 1) Track 4: Networking, Systems and Infrastructure (Network Laboratory 1)
12:30 PM	Lunch / Break



CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition
Organized by Faculty of Computer Science and Information Technology, UPM



Closing Ceremony Venue: Dewan Abdul Azim (DAA)	
2:30 PM – 2:40 PM	Closing Remarks by Assoc. Prof. Dr. Noraini Che Pa, Chairperson
2:40 PM – 2:45 PM	<i>CSIT-UPM iFYPX 2026</i> Closing Ceremony Montage
2:45 PM – 2:55 PM	Announcement of Best Presentation Awards and Best Poster Awards (3 Grant Awards for Each Category)
2:55 PM – 3:00 PM	Photo Session and Dismiss

TOP 10 PITCHING PRESENTATION SCHEDULE

Parallel Session 1 Pitching Presentation inclusive of Evaluation for Top 10 Participants (Gold Awards) Mode: Hybrid Venue: Dewan Abdul Azim (DAA) (Each presenter will be allocated 10 minutes, inclusive of the Question-and-Answer session)	
10:00 AM – 12:30 PM	Pitching Presentation Slots: 1 – 10
SE_P01 10:00 AM - 10:10 AM	Chai Kok Cheng, Sa'adah Hassan Intelligent Financial Forecasting and Debt Management with Agentic AI UPM Malaysia.
SE_P02 10:10 AM - 10:20 AM	Yong Jun Wei, Lim Liu Qi, Rozi Nor Haizan Nor, Azrina Kamaruddin, Nik Muhammad Firdaus Wahab iShare: Enhancing Trust and User Experience in P2P Share Economy Marketplace Using Blockchain and Agentic AI UPM Malaysia, XR Global (Malaysia) Sdn Bhd.
SE_P03 10:20 AM - 10:30 AM	Loh Joe Ying, Amylia Natasya Mohd Faizal, Novia Admodisastro, Muhammed Dzulkhiflee Hamzah, Jaldeen Mohd Ali, Mahfuzah Zainol CapyBaca: An Interactive and Adaptive Audiobook Mobile Application for Children with Dyslexia UPM Malaysia, Hilti Asia IT Services Sdn. Bhd., Dyslexia Genius Malaysia, Ministry of Education



CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition
Organized by Faculty of Computer Science and Information Technology, UPM



<p>CS_P04 10:30 AM - 10:40 AM</p>	<p>Hazani Suhairy Bahar, Hazlina Hamdan Malaysian Sign Language Detection Using Machine Learning Approach for Gesture to Text Translation UPM Malaysia.</p>
<p>CS_P05 10:40 AM - 10:50 AM</p>	<p>Aqil Danish Mohammad Yusof, Thinagaran Perumal AIoT-PoT: Artificial Intelligence of Things Enabled Interaction Honeypot for Smart Home Environment UPM Malaysia.</p>
<p>NSI_P06 10:50 AM - 11:00 AM</p>	<p>Siti Nurinsyrah Pahrin, Sazlinah Hasan AI-Based Intrusion Detection and Entity Classification for Smart Home Security UPM Malaysia.</p>
<p>CS_P07 11:00 AM - 11:10 AM</p>	<p>Nur Saheerah Rafiq Ravindran, Nor Fazlida Mohd Sani Joyjourney : Career Path Prediction System UPM Malaysia.</p>
<p>SE_P08 11:10 AM - 11:20 AM</p>	<p>Nurul Azween Md Elias, Ang Yee Wen, Rodziah Atan, Mohd Asyraf Mohd Nordin PineTrack: An Integrated AI-Driven Scheduling and Smart Decision Support System for Pineapple Plantation Management UPM Malaysia, Zanco Sdn. Bhd.</p>
<p>SE_P09 11:20 AM - 11:30 AM</p>	<p>Nur Adiba Alya Shamsul Kamalrujan, Muhamad Sufri Muhammad Codexpert: AI-Powered Interactive Coding Tutor UPM Malaysia.</p>
<p>SE_P10 11:30 AM - 11:40 AM ONLINE</p>	<p>Muhammad Dzakwan Attaqiy, Nur Aliza Izzati, Khairunnisa Siregar, Dewi Sartika Br Ginting Safest Sexual Assault Free Environment with Smart Technology Universitas Sumatera Utara, Indonesia.</p>

POSTER PRESENTATION SCHEDULE

All Gold Winners of the CSIT-UPM International FYP Exhibition and Competition 2026 are required to present their projects using a poster. Poster Presentation and Exhibition, inclusive of Evaluation for Top 14 Participants (Gold Awards). Each presenter will be allocated 10 minutes, inclusive of the Question-and-Answer session.

TRACK 1: SOFTWARE ENGINEERING (SE) AND INDUSTRY (IND)

Parallel Session 1:A Mode: Hybrid Track: Software Engineering (SE) Track Chair: Dr. Azrina Kamaruddin Venue: Putra Smart Classroom (PSC)	
10:00 AM – 12:30 PM	Poster Presentation Slots : 1 – 14
SE01 10:00 AM - 10:10 AM	Phoo Cheng Yang, Norhayati Mohd Ali, Tee Poh Cheong TicketWave: A Web-Based Ticketing System using Machine Learning and NLP Approach UPM Malaysia, PKT Logistics Group Sdn. Bhd.
SE02 10:10 AM - 10:20 AM	Ham Yap Kang, Noraini Che Pa, Hon Hock Woon, Yew Choong Chew Financial Document Analysis System UPM Malaysia, AmBank Group
SE03 10:20 AM - 10:30 AM	Khoo Boo Jing, Ainita Ban Towards a Digital Waste Ecosystem: RezyGo – A Smart Waste Engagement Mobile App UPM Malaysia.
SE04 10:30 AM - 10:40 AM	Pang Yik Neng, Muhamad Sufri Muhammad Kinest: Smart Elderly Care Mobile Application UPM Malaysia.



CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition

Organized by Faculty of Computer Science and Information Technology, UPM



<p>SE05 10:40 AM - 10:50 AM</p>	<p>Muhammad Aiman Muhammad Naufal, Tan Yong Jin, Shane John Kennedy, Mohd Hafeez Osman, Chew Mei Fong</p> <p>Robotic Automation of Packaging Tasks with Real-time Monitoring: Robotic Monitoring System Module, Visual and Auditory Module and Robotic Movement Module</p> <p>UPM Malaysia, Prestige Atlantic Asia Sdn. Bhd</p>
<p>SE06 10:50 AM - 11:00 AM</p>	<p>Lim Chuan Zhe, Wan Nurhayati Wan Ab. Rahman</p> <p>EVConnect: Smart Mobile-Assistant for EV Maintenance, Learning and Charging</p> <p>UPM Malaysia.</p>
<p>SE07 11:00 AM - 11:10 AM</p>	<p>Hadi Ilhan Hendrik, Wan Nurhayati Wan Ab. Rahman, Hon Hock Woon, Yew Choong Chew</p> <p>AI-Powered Banking Customer Segmentation System for Data-Driven Personalized Marketing</p> <p>UPM Malaysia, AmBank Group</p>
<p>SE08 11:10 AM - 11:20 AM</p>	<p>Nurul Shafitri Jeffery Din, Saadah Hassan</p> <p>CALMIA: Adaptive e-Counseling Mobile App Using AI for Students Seeking Private Supports</p> <p>UPM Malaysia.</p>
<p>SE09 11:20 AM - 11:30 AM</p>	<p>Emily Francis, Pathiah Abd Samat, Saadah Hassan</p> <p>CareerPath AI: Job, Skill and Interview Advisory System (Powered by Gemini)</p> <p>UPM Malaysia.</p>
<p>SE10 11:30 AM - 11:40 AM</p>	<p>Nikeisha Marien Prakash, Muhamad Sufri Muhammad</p> <p>SmartEater: An AI Assisted Food Waste Prevention Support Mobile App For Households</p> <p>UPM Malaysia.</p>
<p>SE11 11:40 AM - 11:50 AM</p>	<p>Wai Yi Pei, Rosli Ismail</p> <p>TaxEase: Smart Tax Assistant Integrating with Machine Learning</p> <p>UPM Malaysia.</p>
<p>SE12 11:50 AM - 12:00 PM</p>	<p>Danisha Azra Mohamad, Norhayati Mohd Ali, Tee Poh Cheong</p> <p>An Information Technology (IT) Inventory Management System Using Radio Frequency Identification (RFID) and QR Code Technologies</p> <p>UPM Malaysia, PKT Logistics Group Sdn. Bhd.</p>



CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition

Organized by Faculty of Computer Science and Information Technology, UPM



<p>SE13 12:00 PM - 12:10 PM</p>	<p>Muhammad Ariq Ulwan Anuar, Noraini Che Pa, Hazrul Abdul Halim Mobile Intelligent Monitoring for Palm Oil Mills (MIM-POM) UPM Malaysia, FGV Holdings Berhad</p>
<p>SE14 ONLINE 10 FEB 2026</p>	<p>Rifqi Jabrah Rhae, Muhammad Luthfi, Maria Juliana Purba, Seniman. BLE Mesh-Based Passenger Counting System Using ESP32 for Smart Tourist Transportation Universitas Sumatera Utara, Indonesia.</p>

<p>Parallel Session 1:B Mode: Physical Track: Industries (IND) Track Chair: Ts. Dr. Rozi Nor Haizan Nor Venue: Putra Smart Classroom (PSC)</p>	
<p>Industry Collaboration</p>	<p>Poster Presentation Slots : 1 – 8</p>
<p>SE&IND01 10:00 AM - 10:10 AM</p>	<p>Nurul Anis Nadiah Mohd Fadli, Rosli Ismail, Izwan Zuhirin Abdul Malek, Fatin Zahira Mat Halim SpeakSteps: Aphasia Rehabilitation Platform Using Machine Learning UPM Malaysia, Hospital Sultan Abdul Aziz Shah (HSAAS), UPM</p>
<p>SE&IND02 10:10 AM - 10:20 AM</p>	<p>Ian Tong Yuan Jun, Ng Keng Yap, Nor Afida Miskam Information System for Occupational Safety and Health (OSH) Audit UPM Malaysia, OSHA UPM</p>
<p>SE&IND03 10:20 AM - 10:30 AM</p>	<p>Mohammad Hafiz Mohammad Fauzi, S.Jeevan Sivakumar, Rozi Nor Haizan Nor, Yusmadi Yah Jusoh, Muhammad Akmal Mahathir QUICKCLEANER: Start Up Company in Digitalizing Malaysia's Cleaning Services UPM Malaysia, MIMS Medica Sdn. Bhd</p>
<p>SE&IND04 10:30 AM - 10:40 AM</p>	<p>Quah Eugene, Pathiah Abd Samat, Hon Hock Woon, Yew Choong Chew WiseWealth AI- AI-Driven Portfolio Tailoring Using Risk Profiling and Market Analysis UPM Malaysia, AmBank Group</p>



CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition

Organized by Faculty of Computer Science and Information Technology, UPM



SE&IND05 10:40 AM - 10:50 AM	Nur Aisyah Abdullah, Ainita Ban, Hon Hock Woon, Yew Choong Chew FraudSentry: An Intelligent Machine Learning Framework for Detecting Fraud in Financial Transactions UPM Malaysia, AmBank Group
SE&IND06 10:50 AM - 11:00 AM	Hazif Hazman, Muhammad Rafiq Zakwan Mohd Raslan, Norhayati Mohd Ali, Pathiah Abdul Samat, Irwan Barudin UPM Campus Car Rental App Powered by PERODUA UPM Malaysia, PERODUA
SE&IND07 11:00 AM - 11:10 AM	Shahrul Amin Saidul Amin, Noraini Che Pa, Hon Hock Woon, Yew Choong Chew AutoLoan: A Machine Learning Approach to Automated Loan Approval Using Counterfactual Explanations, Dynamic Credit Scoring and Human-AI Collaborative Decision-Making UPM Malaysia, AmBank Group
CS&IND01 11:20 AM - 11:30 AM	Muhammad Hanif Murtaza, Yang Zixun, Maslina Zolkepli, Siti Fatimah Mohamad Fakulti Sains dan Teknologi Makanan (FSTM) Digital Industrial Training System FCSIT, Faculty of Food Science and Technology, UPM Malaysia

TRACK 2: MULTIMEDIA (MM)

Parallel Session 2 Mode: Physical Track Chair: Assoc. Prof. Dr. Azrul Hazri Jantan Venue: iSPACE	
10:00 AM - 12:30 PM	Poster Presentation Slots: 1 - 14
MM01 10:00 AM - 10:10 AM	Muhammad Hazeeq Hameed Sultan, Alfian Abdul Halin Multipurpose Translation App for Desktop. UPM Malaysia.
MM02 10:10 AM - 10:20 AM	Sofiyah Mohd Misri, Noris Mohd Norowi Development of an Immersive Lab Environment on Roblox for Form 1 KSSM Science Syllabus. UPM Malaysia.
MM03 10:20 AM - 10:30 AM	Nur Syahidah Syahirah Sharifudin, Mas Rina Mustaffa DETANI: Diagnostik Elektronik Tumbuhan dan Agen Nasihat Interaktif. UPM Malaysia.
MM04 10:30 AM - 10:40 AM	Ahmad Imran Abuyamin, Lili Nurliyana Abdullah Digital Steganography for Secure Data Transmission: A Comparative Analysis between AI and Hybrid. UPM Malaysia.
MM05 10:40 AM - 10:50 AM	Mohamad Harraz Irfan Mohamad Azahari, Zainal Abdul Kahar RPG with Non Linear Progression for Anxiety Disorder Diagnosis. UPM Malaysia.
MM06 10:50 AM - 11:00 AM	Chan Yi Hern, Zainal Abdul Kahar Sound Trigger: Mood-Regulating Rhythm Game Using Brainwave Entrainment. UPM Malaysia.
MM07 11:00 AM - 11:10 AM	Afif Iqbal Adam, Zainal Abdul Kahar NeuraMotionX: Accessible PC First-Person Shooter Game Control. UPM Malaysia.



CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition
Organized by Faculty of Computer Science and Information Technology, UPM



<p>MM08 11:10 AM - 11:20 AM</p>	<p>Dania Aida Qistina Mohamad Zin, Mas Rina Mustaffa HALALSee: Smart Halal App. UPM Malaysia.</p>
<p>MM09 11:20 AM - 11:30 AM</p>	<p>Ahmad Adli Mursidi, Lili Nurliyana Abdullah GoalBuddy App: Football Coaching and Management Application for Early Childhood. UPM Malaysia.</p>
<p>MM10 11:30 AM - 11:40 AM</p>	<p>Suad Hassan Mohamed Ahmed, Azrul Hazri Jantan Dear Mama: A Website Wellness Companion for New Mothers. UPM Malaysia.</p>
<p>MM11 11:40 AM - 11:50 AM</p>	<p>Aein Zakira Zuber, Siti Khadijah Ali PuasaCare: Automated Qada' Tracker and Fidyah Calculator. UPM Malaysia.</p>
<p>MM12 11:50 AM - 12:00 PM</p>	<p>Alyssa Sophia Roslan, Suhaiza Sulaiman AR CHOP DASH: An Active Augmented Reality Mobile Game for Combating Sedentary Lifestyles. UPM Malaysia.</p>
<p>MM13 12:00 PM - 12:10 PM</p>	<p>Akmal Danial Yusni@Mohd Yusri, Ng Seng Beng Readive: A Personalized Reading Companion. UPM Malaysia.</p>
<p>MM14 ONLINE 10 FEB 2026</p>	<p>Fani Windari, Fanindia Purnamasari, Devandra Deal Fatahillah, Muhammad Naufal Azmi Lubis Revitalizing History Learning: A Gamified Hybrid Augmented Reality Book with Multi-Target Tracking for Hindu-Buddhist Kingdoms Universitas Sumatera Utara, Indonesia.</p>

TRACK 3: COMPUTER SCIENCE (CS)

Parallel Session 3 Mode: Physical Track Chair: Assoc. Prof. Ts. Dr. Lili Nurliyana Abdullah Venue: Software Engineering Laboratory 1	
10:00 AM - 12:30 PM	Poster Presentation Slots: 1 - 14
CS01 10:00 AM - 10:10 AM	Muhamad Badar Miqdad Md Nasir, Muhammad Daniel Hafiz Abdullah Legalmind: Ai-Powered Contract Intelligence System UPM Malaysia.
CS02 10:10 AM - 10:20 AM	Woo Hui Wern, Norwati Mustapha A Personalized Stress Intervention Recommender System for University Students UPM Malaysia.
CS03 10:20 AM - 10:30 AM	Seerat Rafiqi, Nurfadhlina Mohd. Sharef CAREERCRAFT: An LLM-Based Career Agent for Intelligent Resume Optimization and Skill-Gap Analysis UPM Malaysia.
CS04 10:30 AM - 10:40 AM	Ikram Hassan Mohamed Ahmed, Iskandar Ishak Smart Recycling Assistant (Recyclomate) UPM Malaysia.
CS05 10:40 AM - 10:50 AM	Alhani Mawaddah Balqis Majdi, Hazlina Hamdan Intelligent Mobile Application for Household Waste Classification Using Convolutional Neural Network and Generative AI-Driven Recycling Recommendation UPM Malaysia.
CS06 10:50 AM - 11:00 AM	Ahgallyah Viswanatha, Nurfadhlina Mohd. Sharef Nutrisecure Ai: Intelligent Dashboard for Food Sufficiency and Nutrient Deficiency with AI Chatbot UPM Malaysia.



CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition

Organized by Faculty of Computer Science and Information Technology, UPM



<p>CS07 11:00 AM - 11:10 AM</p>	<p>Nurshafiya Kayla, Raihani Mohamed Designing A Personalized Job Recommender System for Fresh Graduates Using TF-IDF and Lightfm Models UPM Malaysia.</p>
<p>CS08 11:10 AM - 11:20 AM</p>	<p>Reydan Nadhif Atmodjo, Mohd Yunus Sharum The Development of Personalized Recommendation with AI Assistance for Tourism Website UPM Malaysia.</p>
<p>CS09 11:20 AM - 11:30 AM</p>	<p>Khairul Azim Ahmad, Noor Afiza Mohd Ariffin Phishing Detector Mobile Application UPM Malaysia.</p>
<p>CS10 11:30 AM - 11:40 AM</p>	<p>Mohammad Javan Samboeputra Herlambang, Maslina Zolkepli Forecasting Ethnic Composition Using Time-Series and Geopolitical NLP to Support Policy Planning UPM Malaysia.</p>
<p>CS11 11:40 AM - 11:50 AM</p>	<p>Nur Aisyah Zulkifly, Nurfadhlina Mohd. Sharef Agrineura: AI-Powered Hydroponic Digital Twin and Intervention System UPM Malaysia.</p>
<p>CS12 11:50 AM - 12:00 PM</p>	<p>Puteri Fatin Nurul Izzati Mohamed Fadil, Nor Azura Husin Adoptify: Pet Adoption App with AI-Powered Personalised Matching Using Rule-Based Mapping and Artificial Neural Network (ANN) UPM Malaysia.</p>
<p>CS13 12:00 PM - 12:10 PM</p>	<p>Aisyah Humaira Nasrudin, Noor Afiza Ariffin TRACKIFY: AI-Powered Smart Attendance System with Face Recognition and Geolocation Tracking UPM Malaysia.</p>
<p>CS14 12:10 PM - 12:20 PM</p>	<p>Wong Yong Xi, Mohd Izuan Hafez Ninggal AI-Powered Multi-Layers Ghost Plate Detection for Smart Parking UPM Malaysia.</p>

TRACK 4: NETWORKING, SYSTEMS AND INFRASTRUCTURE (NSI)

Parallel Session 4 Mode: Physical Track Chair: Mr. Mohd Noor Derahman Venue: Network Laboratory 1	
10:00 AM – 12:30 PM	Poster Presentation Slots: 1 – 14
NSI01 10:00 AM - 10:10 AM	Aliss Soraya Mahusin, Nur Arzilawati Md Yunus AI-Driven Parcel Sorting and Management System for University Dormitories UPM Malaysia.
NSI02 10:10 AM - 10:20 AM	Mirsyalni Nadarajan, Fahrul Hakim Huyop@Ayob IoT-Based Smart Trolley System UPM Malaysia.
NSI03 10:20 AM - 10:30 AM	Muhammad Akmal Wanahari, Normalia Samian Beatchain: A Blockchain-Based NFT Solution for Music Ownership and Intellectual Property Protection UPM Malaysia.
NSI04 10:30 AM - 10:40 AM	Ravinraj Mathialahan, Normalia Samian Mytenure: A Blockchain-Based Platform for Land Title Verification and Smart Rental Agreement Management in Malaysia UPM Malaysia.
NSI05 10:40 AM - 10:50 AM	Nur Syahirah Jamal, Sazlinah Hasan Freshguard: An IoT-Based Smart Cool Storage Monitoring System UPM Malaysia.
NSI06 10:50 AM - 11:00 AM	Tan Kah Jun, Zurina Mohd Hanapi Blockchain-Enabled Traceability System for Quality Assurance and Marketability in The Poultry Supply Chain UPM Malaysia.



CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition

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NSI07 11:00 AM - 11:10 AM	Muhamad Safwan Jefree, Shafinah Kamarudin A Gas Sensor-Based Iot Solution For Monitoring Odour Pollution in Water Sources UPM Malaysia.
NSI08 11:10 AM - 11:20 AM	Muhammad Syafi Abdul Nasir, Mohd Noor Derahman Automated Detection and Isolation of Suspicious Hosts in Software Defined Networks UPM Malaysia.
NSI09 11:20 AM - 11:30 AM	Ariff Ameer Aizad Nordin, Ahmad Alauddin Ariffin Cloud-Based Smart Door Access Control System with RFID Key Fob and Tag Management UPM Malaysia.
NSI10 11:30 AM - 11:40 AM	Nurul Firzana Asyiqin Abdullah, Masnida Hussin Real-Time Vehicle Tracking System with Cloud Data Persistence: A Mobile Application Approach UPM Malaysia.
NSI11 11:40 AM - 11:50 AM	Muhammad Faiz Md Fadzli, Idawaty Ahmad Networked!: Enhancing A Gamified Internetworking E-Learning Application Using Firebase and Web-Based Monitoring UPM Malaysia.
NSI12 11:50 AM - 12:00 PM	Muhammad Aqil Iqbal Mohd Jamil, Abdullah Muhammed A Modified TSO-MCR Algorithm with NSGA-II Features for Efficient Scheduling in Scientific Workflow UPM Malaysia.
NSI13 12:00 PM - 12:10 PM	Muhamad Hazami Jamil, Raja Azlina Raja Mahmood Explainable AI-Powered Legal Automation UPM Malaysia.
NSI14 12:10 PM - 12:20 PM	Muhammad Hazlam Azwar Mohd Farizal, Azizol Hj Abdullah Rule-Based Network Diagnosis and Reporting Tool for Home Wi-Fi Users UPM Malaysia.

RESULTS (SEMI FINAL)

The CSIT-UPM International FYP Exhibition and Competition 2026 involves a total of 162 participants. Outstanding projects are recognized with Gold, Silver, and Bronze awards in appreciation of their innovation, dedication, and achievement.



GOLD AWARD

SOFTWARE ENGINEERING TRACK

- 1 Chai Kok Cheng, Sa'adah Hassan
Intelligent Financial Forecasting And Debt Management with Agentic AI
UPM Malaysia.
- 2 Loh Joe Ying, Amylia Natasya Mohd Faizal, Novia Admodisastro, Muhammed Dzulkhiflee Hamzah, Jaldeen Mohd Ali, Mahfuzah Zainol
CapyBaca: An Interactive and Adaptive Audiobook Mobile Application for Children with Dyslexia
UPM Malaysia, Hilti Asia IT Services Sdn. Bhd., Dyslexia Genius Malaysia, Ministry of Education
- 3 Nurul Azween Md Elias, Ang Yee Wen, Rodziah Atan, Mohd Asyraf Mohd Nordin
Pinetrack: An Integrated AI-Driven Scheduling and Smart Decision Support System for Pineapple Plantation Management.
UPM Malaysia.
- 4 Yong Jun Wei, Lim Liu Qi, Rozi Nor Haizan Nor, Azrina Kamaruddin, Nik Muhammad Firdaus Wahab
IShare: Enhancing Trust In P2P Share Economy Marketplace Using Blockchain
UPM Malaysia.
- 5 Nur Adiba Alya Shamsul Kamalrujan, Muhamad Sufri Muhammad
Codexpert: AI-Powered Interactive Coding Tutor
UPM Malaysia.
- 6 Muhammad Dzakwan Attaqiy, Nur Aliza Izzati, Khairunnisa Siregar, Dewi Sartika Br Ginting
Safest Sexual Assault Free Environment with Smart Technology
Universitas Sumatera Utara, Indonesia.
- 7 Khoo Boo Jing, Ainita Ban
Towards a Digital Waste Ecosystem: Rezygo – A Smart Waste Engagement Mobile App
UPM Malaysia.
- 8 Lim Chuan Zhe, Wan Nurhayati Wan Abdul Rahman
EVConnect: Smart Mobile-Assistant for EV Maintenance, Learning and Charging
UPM Malaysia.



CSIT-UPM INTERNATIONAL FINAL YEAR PROJECT

Exhibition and Competition

CSIT-UPM iFYP2026

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- 9 Muhammad Aiman Muhammad Naufal, Mohd Hafeez Osman, Chew Mei Fong
Robotic Automation of Packaging Tasks with Real-Time Monitoring: Robotic Monitoring System Module
UPM Malaysia, Prestige Atlantic Asia Sdn. Bhd.
- 10 Emily Francis, Pathiah Abd Samat
Careerpath AI: Job, Skill and Interview Advisory System (Powered By Gemini)
UPM Malaysia.
- 11 Nikeisha Marien Prakash, Muhamad Sufri Muhammad
SmartEater: An AI Assisted Food Waste Prevention Support Mobile App For Households
UPM Malaysia.
- 12 Phoo Cheng Yang, Norhayati Mohd Ali, Tee Poh Cheong
TicketWave: A Web-Based Ticketing System using Machine Learning and NLP Approach
UPM Malaysia, PKT Logistics Group Sdn. Bhd.
- 13 Rifqi Jabrah Rhae, Muhammad Luthfi, Maria Juliana Purba, Seniman.
BLE Mesh-Based Passenger Counting System Using ESP32 for Smart Tourist Transportation
Universitas Sumatera Utara, Indonesia.
- 14 Pang Yik Neng, Muhamad Sufri Muhamad
Kinnest: Smart Elderly Care Mobile Application
UPM Malaysia.
- 15 Nurul Shafitri Jeffery Din, Sa'adah Hassan
CALMIA: Adaptive e-Counseling Mobile App Using AI for Students Seeking Private Supports
UPM Malaysia.
- 16 Ham Yap Kang, Noraini Che Pa, Hon Hock Woon, Yew Choong Chew
Financial Document Analysis System
UPM Malaysia, AmBank Group.
- 17 Muhammad Ariq Ulwan Anuar, Noraini Che Pa, Hazrul Abdul Halim
Mobile Intelligent Monitoring for Palm Oil Mills (MIM-POM)
UPM Malaysia, FGV Holdings Berhad
- 18 Wai Yi Pei, Rosli Ismail
Taxease: Smart Tax Assistant Integrating with Machine Learning
UPM Malaysia.
- 19 Hadi Ilhan Hendrik, Wan Nurhayati Wan Abd Rahman, Hon Hock Woon, Yew Choong Chew
AI-Powered Banking Customer Segmentation System for Data-Driven Personalized Marketing
UPM Malaysia, AmBank Group.
- 20 Danisha Azra Mohamad, Norhayati Mohd Ali
An Information Technology (IT) Inventory Management System Using Radio Frequency Identification (RFID) and QR Code Technologies
UPM Malaysia, PKT Logistics Group Sdn. Bhd.

MULTIMEDIA TRACK

- 1 Muhammad Hazeeq Hameed Sultan, Alfian Abdul Halin
Multipurpose Translation App for Desktop
UPM Malaysia.
- 2 Sofiyah Mohd Misri, Noris Mohd Norowi
Development of an Immersive Lab Environment on Roblox for Form 1 KSSM Science Syllabus
UPM Malaysia.
- 3 Nur Syahidah Syahirah Sharifudin, Mas Rina Mustaffa
DETANI: Diagnostik Elektronik Tumbuhan dan Agen Nasihat Interaktif
UPM Malaysia.
- 4 Ahmad Imran Abuyamin, Lili Nurliyana Abdullah
Digital Steganography for Secure Data Transmission: A Comparative Analysis of AI and Hybrid Techniques
UPM Malaysia.
- 5 Mohamad Harraz Irfan Mohamad Azahari, Zainal Abdul Kahar
RPG With Non-Linear Progression for Anxiety Disorder Diagnosis
UPM Malaysia.
- 6 Chan Yi Hern, Zainal Abdul Kahar
Sound Trigger: Mood-Regulating Rhythm Game Using Brainwave Entrainment
UPM Malaysia.
- 7 Afif Iqbal Adam, Zainal Abdul Kahar
NeuraMotionX: Accessible PC First-Person Shooter Game Control for Single Upper-Limb Disability
UPM Malaysia.
- 8 Dania Aida Qistina Mohamad Zin, Mas Rina Mustaffa
HalalSee: Smart Halal App
UPM Malaysia.
- 9 Ahmad Adli Mursidi, Lili Nurliyana Abdullah
GoalBuddy App: Football Coaching and Management Application for Early Childhood Development
UPM Malaysia.
- 10 Suad Hassan Mohamed Ahmed, Azrul Hazri Jantan
Dear Mama : A Website Wellness Companion for New Mothers
UPM Malaysia.
- 11 Aein Zakira Zuber, Siti Khadijah Ali
PuasaCare: Automated Qada' Tracker and Fidyah Calculator
UPM Malaysia.
- 12 Alyssa Sophia Roslan, Puteri Suhaiza Sulaiman
AR CHOP DASH: An Active Augmented Reality Mobile Game for Combating Sedentary Lifestyles
UPM Malaysia.

- 13 Akmal Danial Yusni@Mohd Yusri, Ng Seng Beng
Readive: A Personalized Reading Companion
UPM Malaysia.
- 14 Fani Windari, Fanindia Purnamasari, Devandra Deal Fatahillah, Muhammad Naufal Azmi Lubis
Revitalizing History Learning: A Gamified Hybrid Augmented Reality Book with Multi-Target Tracking for Hindu-Buddhist Kingdoms
Universitas Sumatera Utara, Indonesia.

COMPUTER SCIENCE TRACK

- 1 Hazani Suhairy Bahar, Hazlina Hamdan
Malaysian Sign Language Detection Using Machine Learning Approach for Gesture to Text Translation
UPM Malaysia.
- 2 Nur Saheerah Rafiq Ravindran, Nor Fazlida Mohd Sani
Joyjourney : Career Path Prediction System
UPM Malaysia.
- 3 Aqil Danish Mohammad Yusof, Thinagaran Perumal
AloT-PoT: Artificial Intelligence of Things Enabled Interaction Honeypot for Smart Home Environment
UPM Malaysia.
- 4 Nurshafiya Kayla, Raihani Mohamed
Designing a Personalized Job Recommender System for Fresh Graduates Using Tf-Idf and Lightfm Models
UPM Malaysia.
- 5 Aisyah Humaira Nasrudin, Noor Afiza Mohd Ariffin
Trackify: AI-Powered Smart Attendance System with Face Recognition and Geolocation Tracking
UPM Malaysia.
- 6 Woo Hui Wern, Norwati Mustapha
A Personalized Stress Intervention Recommender System for University Students
UPM Malaysia.
- 7 Seerat Rafiqi, Nurfadhline Mohd Sharef
Careercraft: An LLM-Based Career Agent for Intelligent Resume Optimization and Skill-Gap Analysis
UPM Malaysia.
- 8 Ikram Hassan Mohamed Ahmed, Iskandar Ishak
Smart Recycling Assistant (Recyclomate)
UPM Malaysia.



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- 9 Alhani Mawaddah Balqis Majdi, Hazlina Hamdan
Intelligent Mobile Application for Household Waste Classification Using Convolutional Neural Network and Generative AI-Driven Recycling Recommendations
UPM Malaysia.
- 10 Ahgallyah Viswanathan, Nurfadhlin Mohd Sharef
Nutrisecure AI: Intelligent Dashboard for Food Sufficiency and Nutrient Deficiency with AI Chatbot
UPM Malaysia.
- 11 Muhamad Badar Miqdad Md Nasir, Muhammad Daniel Hafiz Abdullah
Legalmind : AI-Powered Contract Intelligence System
UPM Malaysia.
- 12 Reydan Nadhif Atmodjo, Mohd Yunus Sharum
The Development of Personalized Recommendation with AI Assistance for Tourism Website
UPM Malaysia.
- 13 Khairul Azim Ahmad, Noor Afiza Mohd Ariffin
Phishing Detector Mobile Application
UPM Malaysia.
- 14 Mohammad Javan Samboeputra Herlambang, Maslina Zolkepli
Forecasting Ethnic Composition Using Time-Series and Geopolitical NLP to Support Policy Planning
UPM Malaysia.
- 15 Nur Aisyah Zulkifly, Nurfadhlin Mohd Sharef
Agrineura: AI - Powered Hydroponic Digital Twin and Intervention System
UPM Malaysia.
- 16 Puteri Fatin Nurul Izzati Mohamed Fadil, Nor Azura Husin
Adoptify: Pet Adoption App with AI-Powered Personalised Matching Using Rule-Based Mapping and Artificial Neural Network (ANN)
UPM Malaysia.
- 17 Wong Yong Xi, Mohd Izuan Hafez Hj Ninggal
Detecting Cloned Plates with AI-Powered ANPR for Smart Parking Security
UPM Malaysia.

NETWORKING, SYSTEMS AND INFRASTRUCTURE TRACK

- 1 Siti Nurinsyrah Pahrin, Sazlinah Hasan
AI-Based Intrusion Detection and Entity Classification for Smart Home Security
UPM Malaysia.
- 2 Ravinraj Mathialahan, Normalia Samian
Blockchain-Based Platform for Land Title Verification and Smart Rental Agreement Management in Malaysia
UPM Malaysia.



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- 3 Nur Syahirah Jamal, Sazlinah Hasan
Freshguard: An IOT-Based Smart Cold Storage for Spoilage Reduction
UPM Malaysia.
- 4 Aliss Soraya Mahusin, Nur Arzilawati Md Yunus
AI-Driven Parcel Sorting and Management System for University Dormitories
UPM Malaysia.
- 5 Tan Kah Jun, Zurina Mohd Hanapi
Traceability System for Quality Assurance and Marketability in the Poultry Supply Chain
UPM Malaysia.
- 6 Mirsyalni Nadarajan, Fahrul Hakim Huyop@Ayob
IOT-Based Smart Trolley System
UPM Malaysia.
- 7 Muhammad Faiz Md Fadzli, Idawaty Ahmad
Networked!: Enhancing Gamified Internetworking E-Learning Application Using Firebase
and Web-Based Monitoring
UPM Malaysia.
- 8 Muhammad Syafi Abdul Nasir, Mohd Noor Derahman
Automated Detection and Isolation of Suspicious Hosts in Software Defined Network
UPM Malaysia.
- 9 Muhammad Akmal Wanahari, Normalia Samian
Beatchain: A Blockchain-Based Nft Platform for Music Ownership and IP Protection
UPM Malaysia.
- 10 Muhammad Aqil Iqbal Mohd Jamil, Abdullah Muhammed
Reimplementation and Performance Evaluation of TSO-MCR Algorithm with NSGA-LI
Algorithm Features on Scientific Workflow
UPM Malaysia.
- 11 Nurul Firzana Asyiqin Abdullah, Masnida Hussin
Real-Time Fleet Lorry Tracking System with Cloud Data Persistence
UPM Malaysia.
- 12 Muhammad Hazlam Azwar Mohd Farizal, Azizol Hj Abdullah
AI-Based Network Diagnosis and Reporting Tool for Home and Small Medium Enterprise
(SME) Networks
UPM Malaysia.
- 13 Muhamad Safwan Jefree, Shafinah Kamarudin
A Gas Sensor-Based IoT Solution for Monitoring Odour Pollution in Water Sources
UPM Malaysia.
- 14 Ariff Ameer Aizad Nordin, Ahmad Alauddin Ariffin
Cloud-Based Smart Door Access Control System with RFID Key Fob and Tag Management
UPM Malaysia.
- 15 Muhamad Hazami Jamil, Raja Azlina Raja Mahmood
Explainable AI-Powered Legal Automation
UPM Malaysia.



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SILVER AWARD

SOFTWARE ENGINEERING TRACK

- 1 Mohammad Hafiz Mohammad Fauzi, S.Jeevan Sivakumar, Rozi Nor Haizan Nor, Yusmadi Yah Jusoh, Muhammad Akmal Mahathir
QUICKCLEANER: Start Up Company in Digitalizing Malaysia's Cleaning Services
UPM Malaysia, MIMS Medica Sdn. Bhd
- 2 Chan Ci En, Yusmadi Yah Jusoh, Rozi Nor Haizan Nor
Web-Based Student Event Management and Approval System for UPM
UPM Malaysia.
- 3 Nurul Anis Nadiyah Mohd Fadli, Rosli Ismail, Izwan Zuhryn Abdul Malek, Fatin Zahira Mat Halim
SpeakSteps: Aphasia Rehabilitation Platform Using Machine Learning
UPM Malaysia, Hospital Sultan Abdul Aziz Shah (HSAAS), UPM
- 4 Nur Aisyah Abdullah, Ainita Ban, Hon Hock Woon, Yew Choong Chew
Fraudsentry: An Intelligent Machine Learning Framework for Detecting Fraud in Financial Transactions
UPM Malaysia, AmBank Group.
- 5 Nurin Adni Mohd Zaronizam, Pathiah Abd Samat
Foodwise: An AI-Driven Mobile Application for Controlling Household Food Waste
UPM Malaysia.
- 6 Hazif Hazman, Muhammad Rafiq Zakwan Mohd Raslan, Norhayati Mohd Ali, Pathiah Abdul Samat, Irwan Barudin
UPM Campus Car Rental App Powered by PERODUA
UPM Malaysia, PERODUA
- 7 Quah Eugene, Pathiah Abd Samat, Hon Hock Woon, Yew Choong Chew
Wisewealth AI- AI-Driven Portfolio Tailoring Using Risk Profiling and Market Analysis
UPM Malaysia, AmBank Group.
- 8 Nurul Andini, Muhammad Bayhaqi Daulay, Ali Hidayat, Jackie Chandra, Baihaqi Siregar
Tomato Plant Growth Prediction Based on Image Acquisition by a Farm Robot
Universitas Sumatera Utara, Indonesia.
- 9 Loo Huai Yuan, Salfarina Abdullah
Smartshopper: AI-Based Price Comparison and Shopping Assistant
UPM Malaysia.
- 10 Ian Tong Yuan Jun, Ng Keng Yap, Nor Afida Miskam
Information System for Occupational Safety and Health (OSH) Audit
UPM Malaysia, OSHA UPM
- 11 Choo Jian Feng, Mar Yah Said
IoT-Based Cardiovascular Disease Prediction System Using Machine Learning
UPM Malaysia.

- 12 Chu Xing En, Masrah Azrifah Azmi Murad
Smart Queue Management System for Clinics
UPM Malaysia.
- 13 Nur Akmal Abdul Hamdi, Masrah Azrifah Azmi Murad
Spot B-Leaf - Mobile AI-Powered Banana Leaf Disease Detection and Management System
UPM Malaysia.
- 14 Nurul Saidatul Fatiha Shaharudin, Azrina Kamaruddin
Development of an Automated Assessment and Evaluation System for Bachelor Projects
(Coordinator and Student Modules)
UPM Malaysia.

MULTIMEDIA TRACK

- 1 Ng Mun Teng, Mas Rina Mustaffa
IriPadi - A Smart Paddy Irrigation System
UPM Malaysia.
- 2 Nur Nabila Shahirah Salim, Nurul Amelina Nasharuddin
Toothymate App: Smart Oral Health Awareness with AR and AI
UPM Malaysia.
- 3 Nur Khairina Khairil Anwar, Fatimah Khalid
Divy : An Automated Group Expense Management Application with Receipt Scanning
UPM Malaysia.
- 4 Aleeya Sofea Sh Salim, Mas Rina Mustaffa
Smartnotes: AI-Powered Summarisation and Flashcard Generation for Learning Database
Principles
UPM Malaysia.
- 5 Nur Najihah Hassan, Siti Khadijah Ali
Sistem Pengurusan Rekod Unit Tentera JKR
UPM Malaysia.
- 6 Muhammad Ikhwan Haziq Khairul Anuar, Noris Mohd Norowi
Educational Video Game Platform on Combating Climate Change
UPM Malaysia.
- 7 Edrieanna Soraya Zuraidi Effendi, Mas Rina Mustaffa
ERDucate: An AI-Powered ERD Assessment and Feedback Tool
UPM Malaysia.

COMPUTER SCIENCE TRACK

- 1 Nalan Palani, Thinagaran Perumal
An IoT System for Intelligent Supply Chain Fresh Food Monitoring
UPM Malaysia.
- 2 Tinny Dwight Briones Cutad, Muhammad Daniel Hafiz Abdullah
KIRA Flow: A Secure Multi-Bank Financial Integration Platform for Real-Time Transaction
Analytics and Automated Clearing House (ACH) Transfers
UPM Malaysia.
- 3 Syazmeel Adam Shariful Azri, Raihani Mohamed
Smart Forest Management
UPM Malaysia.
- 4 Ainul Zafir Adni, Siti Nurulain Mohd Rum
Flux: Automated Apple Quality Analysis and Market Price Prediction
UPM Malaysia.
- 5 Teevanraj Sankar, Siti Nurulain Mohd Rum
G.O.A.T. Vision (Goal Oriented Analysis Tool)
UPM Malaysia.
- 6 Abujiya Aminah Muazu, Iskandar Ishak
Predictive Maintenance Application for Malaysian School Infrastructure
UPM Malaysia.
- 7 Muhammad Izzul Fidaey Mohd Zaki, Raihani Mohamed
Climate Impact Analysis on Food Security
UPM Malaysia.
- 8 Nurfarhannis Nabila Mohd Fauzi, Noor Afiza Mohd Ariffin
Classync: Engagement Analytics and Smart Attendance for Online Learning
UPM Malaysia.
- 9 Janardhan Thiagu, Nurfadhlina Mohd Sharef
Karate (KUMITE) Sparring Analysis System
UPM Malaysia.
- 10 Alya Batrisyia Uzaimi, Noor Afiza Mohd Ariffin
StudyHush : Smart Study Planning Mobile Application
UPM Malaysia.
- 11 Munizah Mohd Zahid, Sharifah Md Yasin
Cloud-Based Secure File Transfer Using Hybrid Encryption with AES-256 and RSA
UPM Malaysia.
- 12 Sharmilaa Sankaran, Thinagaran Perumal
Emotion-Aware Human Activity Recognition with Anomaly Detection and Alert System
Using Wearable Sensors
UPM Malaysia.
- 13 Rizky Agung Nurbaskoro, Razali Yaakob
Enhancing XGBoost-Based Pit Stop Strategy Prediction in Formula 1 Using Weather Data
UPM Malaysia.



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- 14 Munirah Mazlan, Noridayu Manshor
Smart Uniform Inventory Forecasting System
UPM Malaysia.
- 15 Nur Aina Afrina Amirudin, Mohd Izuan Hafez Hj Ninggal
Blockchain-Based Donation Management System for Flood Disaster Relief
UPM Malaysia.
- 16 Nurul Azwalina Noor Azman, Sharifah Md Yasin
Enhancing Security and User Experience of University Voting System (PutraVoting)
UPM Malaysia.
- 17 Muhammad Syakir Najmi Abu Bakar, Hazlina Hamdan
Mobile-Based Smart Fashion Assistant: AI Garment Tagging and Contextual Outfit
Recommendation System Using CNN (ResNet-50) and KNN
UPM Malaysia.
- 18 Nurul Syahidah Abd Hizam, Nor Azura Husin
Voice-Based AI Emotion Recognition for Smart Mirror
UPM Malaysia.
- 19 Munira Natasha Musa, Sharifah Md Yasin
Improved Authenticated Encryption for Secure File Protection
UPM Malaysia.
- 20 Nur Syafiqah Baidrol Azmee, Noridayu Manshor
GrocEye: Image-based Grocery Price Comparison Application for Everyday Shoppers
UPM Malaysia.
- 21 Nur Intan Farzanah Mohd Shofe, Aziah Asmawi
Automated Self-Services Pharmacy Dispenser with Dual Authentication
UPM Malaysia.
- 22 Nurul Ilyana Mohamed Saupi, Nor Fazlida Mohd Sani
EthniTrend: AI-Powered Web System for Multicultural Festive Fashion Insights in Malaysia
UPM Malaysia.
- 23 Sharvin S.A.Selvaraj, Siti Nurulain Mohd Rum
FEEDIGO: A Smart Mobile Platform for Hunger Relief
UPM Malaysia.
- 24 Nur Batrisyia Laiyinah Ahmad Daud, Maslina Zolkepli
PantryPal: Smart Inventory System for Food Expiry Management
UPM Malaysia.
- 25 Thibaan Raj Periasamy, Khairul Azhar Kasmiran
NutriGuide: A Smart Malaysian Food Diet App
UPM Malaysia.
- 26 Nur Aishah Abd Hadi, Nor Azura Husin
FreshPal: A Deep Learning-Based Mobile Application for Freshness Detection of Fruits and
Vegetables
UPM Malaysia.

NETWORKING, SYSTEMS AND INFRASTRUCTURE TRACK

- 1 Putera Muhammad Hazwan Mohd Zain Azraie, Idawaty Ahmad
AI-Enhanced E-Commerce Platform for Thrift and Bundle Fashion Shop
UPM Malaysia.
- 2 Tan Jia Qing, Idawaty Ahmad
SPM Biocoach: An AI-Powered System for MCQ Topic Analysis and Visualisation
UPM Malaysia.
- 3 Siti Najma Izzaty Muhd Asyraf, Rohaya Latip
Soil Quality Monitoring and Evaluating Using IoT System
UPM Malaysia.
- 4 Wan Siti Aisyah Wan Kadir, Shamala K Subramaniam
Adaptive Optimization of IoT Network Performance Using Reinforcement Learning
UPM Malaysia.
- 5 Maynon S.Selvam, Amir Rizaan Abdul Rahimin
Deep Learning-Based Face Recognition System for Real-World Video Application Using
Improved Inception-Resnet (IVFRNET)
UPM Malaysia.
- 6 Nia Sabrina Nasruddin, Rohaya Latip
AI Based System for Early Detection of Diseases in Rockmelon Plants
UPM Malaysia.
- 7 Abdul Majid Misruji, Azizol Hj Abdullah
A Scalable Automated Network Configuration and Monitoring System Using Ansible,
Zabbix and Netbox
UPM Malaysia.
- 8 Lok Yong Xue, Ahmad Alauddin Ariffin
Reimplementation of GIWRF Features Selection Technique and Ensemble Stacking
Integration on TON_IOT Network Dataset
UPM Malaysia.
- 9 Muhammad Izzat Nazmi Ismail, Shafinah Kamarudin
Agrikeep : Seed 2 Harvest App
UPM Malaysia.
- 10 Muhammad Fazrul Hafizi Anuar, Ahmad Alauddin Ariffin
Network Architecture for an Integrated IoT System for Monitoring and Automating Control
in Aquaculture System
UPM Malaysia.
- 11 Anis Humaira Azman, Nor Asilah Wati Abdul Hamid
Smarter, Safer, and Greener Autonomous Drones
UPM Malaysia.



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- 12 Fatin Nasuha Zuraidi, Nur Arzilawati Md Yunus
Automated Water Level Adjustment Hydroponic Using IoT Sensors
UPM Malaysia.
- 13 Kabilan M.Murugan, Sazlinah Hasan
Smart Bed Monitoring System for Patient Monitoring Using IoT
UPM Malaysia.
- 14 Nurul Farizatul Aina Mohammad Farizal, Raja Azlina Raja Mahmood
Senseability : Network Intrusion Detection for IoT Network Using Transfer Learning
UPM Malaysia.
- 15 Visagan Rao J Venkata Ramana, Shamala K Subramaniam
Intelligent Traffic Management Using I and SDN in Vehicular Networks (VaNet)
UPM Malaysia.
- 16 Divendren Nathan, Mohd Noor Derahman
IR 5.0-Based Automated Fertigation System for Bird's Eye Chili
UPM Malaysia.



BRONZE AWARD

SOFTWARE ENGINEERING TRACK

- 1 Nur Nabilah Farhana Amla, Ainita Ban
Game2code: Empowering Rural Students through Gamified Learning App
UPM Malaysia.
- 2 Tang Zi Kian, Hazura Zulzalil
Risk and Value Assessment System for Residential Property
UPM Malaysia.
- 3 Shahrul Amin Saidul Amin, Noraini Che Pa, Hon Hock Woon, Yew Choong Chew
AutoLoan: A Machine Learning Approach to Automated Loan Approval Using
Counterfactual Explanations, Dynamic Credit Scoring and Human-AI Collaborative
Decision-Making
UPM Malaysia, AmBank Group.
- 4 Abdulrahman Abdulkarem Mohammed Al-Rawdhi, Muhamad Sufri Muhammad
Personal Mental Health Companion
UPM Malaysia.
- 5 Zhang Kaibo, Ainita Ban
Campus Second-Hand Trading Website
UPM Malaysia.

- 6 Zhang Yifei, Ng Keng Yap
Smart Gray Oyster Mushroom Grow Tent System
UPM Malaysia.
- 7 Warganegara Muhammad Dhafa, Salfarina Abdullah
Security Mobile App in One Gate Residential
UPM Malaysia.

MULTIMEDIA TRACK

- 1 Liza Nuralyaa Natasya Mohammad Fazli, Siti Khadijah Ali
NotePetal : Smart Study Tool to Enhance Student Learning with AI
UPM Malaysia.
- 2 Nur Fahmi Putra Nor Ihsan, Alfian Abdul Halin
StudentCab UPM Application
UPM Malaysia.
- 3 Daniel Harith Zullkefli, Noris Mohd Norowi
Embedded-Based Flood Monitoring System
UPM Malaysia.
- 4 Nik Muhammad Hamzee Nik Puzlan, Hizmawati Madzin
Putra Agritrack: AI-Powered UPM Agri-Monitoring Dashboard
UPM Malaysia.
- 5 Nik Nur Alia Mohd Saufi, Puteri Suhaiza Sulaiman
Interactive Wall at FSKTM, UPM
UPM Malaysia.
- 6 Liu Xirui, Ng Seng Beng
Melosphere: An Augmented Reality Music Learning and Playing Application
UPM Malaysia.

COMPUTER SCIENCE TRACK

- 1 Muhammad Hanif Murtaza, Yang Zixun, Maslina Zolkepli, Siti Fatimah Mohamad
Fakulti Sains dan Teknologi Makanan (FSTM) Digital Industrial Training System
FCSIT, Faculty of Food Science and Technology, UPM Malaysia
- 2 Nur Syuhada Kasa, Raihani Mohamed
E-Commerce Platform with Sales Forecasting and Product Recommendation Features
UPM Malaysia.
- 3 Muhammad Hadi Zafran Mohamed Kamil, Mohd Yunus Sharum
Travel Assistant for Hotel and Destinations Recommendations Using Rag
UPM Malaysia.



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- 4 Kavinraj M.Subrayan, Khairul Azhar Kasmiran
GYM FLOW - An AI Powered Real Time Smart Gym Management System
UPM Malaysia.
- 5 Muhammad Amirul Mohd Rahami, Muhammad Daniel Hafiz Abdullah
SMARTDANA: A Transparent and Accountable Crowdfunding System Using Blockchain
UPM Malaysia.
- 6 Lim Zhi Ying, Norwati Mustapha
Predicting Sleep Disorders in University Students Based on Lifestyle and Health Data
UPM Malaysia.
- 7 Liu Ronghao, Noridayu Manshor
AI Powered Healthy Food Recommendation System (LLM + Privacy Preserving Design)
UPM Malaysia.
- 8 Hu Lanyin, Norwati Mustapha
GoTrip: A Smart Tourism Recommendation System with Personalized Travel Routes and
Transportation Suggestions
UPM Malaysia.
- 9 Saif Ullah Khan, Khairul Azhar Kasmiran
CampusConnect – AI Chatbot for FSKTM Student Support
UPM Malaysia.
- 10 Muhammad Syafhil Hafiz Hilman Syahputra, Aziah Asmawi
Mobile Application for Phishing Messages Detection using Term Frequency - Inverse
Document Frequency (TF-IDF) and Random Forest for Malay Language in Telegram
UPM Malaysia.
- 11 Cai Zeshuo, Erzam Marlisah
Blind Navigation Assistant
UPM Malaysia.

NETWORKING, SYSTEMS AND INFRASTRUCTURE TRACK

- 1 Azyan Syazwani Setia@Junid, Masnida Hussin
Crowdsourcing-Based Mobile Application for Enhancing the Visibility and
Competitiveness of Micro Food Enterprises in Serdang Community
UPM Malaysia.
- 2 Al Kathiri Sultan Mohammed Awadh, Abdullah Muhammed
Netsentinel: An Intelligent Python Based Network Scanning Tool for Enhancing Network
Security and Detecting Vulnerabilities
UPM Malaysia.
- 3 Aya Sofea Rosli, Nor Asilah Wati Abdul Hamid
Development of LLM-Based AI Chatbox Dashboard for Oil Palm Plantation Management
UPM Malaysia.

- 4 Chua Hui Qi, Raja Azlina Raja Mahmood
AI-Driven Intrusion Detection System Using Deep Transfer Learning
UPM Malaysia.
- 5 Mohamad Aidil Radzali, Zurina Mohd Hanapi
IoT-Based Expired Vegetables Detection System with Real-Time Mobile Alerts
UPM Malaysia.
- 6 Muhammad Haikal Mohd Sayuti, Zuriati Ahmad Zukarnain
Blockchain-Based System for Product Authentication and Scam Detection
UPM Malaysia.
- 7 Muhammad Amir Hakim Shahrin, Fahrul Hakim Huyop@Ayob
AI-Driven Microsleep Detection System for Secure Driving
UPM Malaysia.
- 8 Xiao Feng, Amir Rizaan Abdul Rahimin
Leveraging Machine Learning in an IoT App for Predictive Device Management
UPM Malaysia.
- 9 Muhammad Arif Zahiruddin Yassir, Zuriati Ahmad Zukarnain
Cyberbully Detection Using Blockchain Based Solution
UPM Malaysia.

LIST OF JURIES

LOCAL

- 1 Assoc. Prof. Dr Azizol Abdullah
UPM Malaysia.
- 2 Assoc. Prof. Dr. Azrul Hazri Jantan
UPM Malaysia.
- 3 Assoc. Prof. Ts. Dr. Lili Nurliyana Abdullah
UPM Malaysia.
- 4 Assoc. Prof. Ts. Dr. Masnida Hj. Hussin
UPM Malaysia.
- 5 Assoc. Prof. Dr. Mohd Amiruddin bin Abd Rahman
UPM Malaysia.
- 6 Assoc. Prof. Dr. Muhammad Khalis Abdul Karim
UPM Malaysia.
- 7 Assoc. Prof. Dr. Noraini Che Pa
UPM Malaysia.
- 8 Assoc. Prof. Ts. Dr. Yusmadi Yah Jusoh
UPM Malaysia.
- 9 Assoc. Prof. Ts. Dr. Rodziah Atan
UPM Malaysia.
- 10 Ts. Dr. Amir Rizaan Abdul Rahiman
UPM Malaysia.
- 11 Ts. Dr. Muhamad Sufri Muhammad
UPM Malaysia.
- 12 Ts. Dr. Rozi Nor Haizan Nor
UPM Malaysia.
- 13 Dr. Aziah Asmawi
UPM Malaysia.
- 14 Dr. Erzam Marlisah
UPM Malaysia.
- 15 Dr. Fahrul Hakim Huyop
UPM Malaysia.
- 16 Dr. Idawaty Ahmad
UPM Malaysia.
- 17 Dr. Mohd Izuan Hafez Hj Ninggal
UPM Malaysia.

- 18 Dr. Muhammad Daniel Hafiz Abdullah
UPM Malaysia.
- 19 Dr. Ng Seng Beng
UPM Malaysia.
- 20 Dr. Nizam Tamchek
UPM Malaysia.
- 21 Dr. Noor Afiza Mohd Ariffin
UPM Malaysia.
- 22 Dr. Normalia Samian
UPM Malaysia.
- 23 Dr. Nur Arzilawati Md Yunus
UPM Malaysia.
- 24 Ts. Dr. Raihani binti Mohamed
UPM Malaysia.
- 25 Dr. Raja Azlina Raja Mahmood
UPM Malaysia.
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