

Email Address	Supervisor's Name	List one or more P1 titles in this section. Put a numbering (if more than one) and press 'Enter' after each title.
uzairiqbal@um.edu.my	Dr. Uzair Iqbal	Title 1: Neuro-Symbolic Vision-Language Models for Predictive Analytics in Retinopathic Disease Progression Title 2: From Eye to Heart: A Non-Invasive Deep Learning Framework for Early Detection of Cardiovascular Disorders Using Retinal Scans
tutut@um.edu.my	Tutut Herawan	1. Soft set approach for decision making in business 2. Fuzzy soft set approach for decision making in business 3. Social Media Text Analysis on Public's Sentiments 4. Integration of AI & ML in Business Strategies 5. Advanced Machine Learning Techniques for Synthetic Data Generation
norjihjan@um.edu.my	AP Dr Norjihjan Abdul Gh	1. Traffic Congestion Prediction 2. Anomaly Detection in Traffic Data to Prevent Security Threats 3. Predictive Traffic Flow Analysis 4. Autonomous Vehicle Security and Attack Prevention 5. Behavioral Biometrics for Vehicle Access Control 6. Threat Detection in Smart Transportation System 7. Traffic Data Encryption and Privacy Preservation for ITS 8. Wearable Device Data Analysis for Health Monitoring 9. Automatic Medical Record Summarization 10. Real-Time Health Monitoring with IoT Devices 11. Social Engineering Attack Detection 12. User Behavior Analytics (UBA) for Insider Threat Detection
suraya_hamid@um.edu.r	Assoc. Prof. Dr. Suraya H	1. Healthy Lifestyle Predictions with Emerging Technology(ies) 2. Analysis and Prediction of Staple Food Price in Malaysia using Machine Learning Approach ( or any related) 3. Buyer Prediction During Streamlined (real-time engagement) Social Media ( eg. TikTok) 3. Any related proposed title (refer to data science requirements) - subject to approval
ckloo.um@um.edu.my	LOO CHU KIONG	1. Deep learning-based long-term risk evaluation of incident type 2 diabetes using electrocardiogram. 2. Early Warning of Atrial Fibrillation Using Deep Learning 3. Prediction of atrial fibrillation from single-lead ECG signals without arrhythmias
kasturi@um.edu.my	Assoc. Prof. Dr. Kasturi C	1) Fake Review Detection Using Large Language Model 2) Quantum Computing based Prediction Model 3) Prediction of Cardiac Rehabilitation 4) Suicide Ideation Detection Using User Generated Data 5) Cyberbullying Detection From Social Media Using Large Language Model 6) Conversational Agent for Depression Detection 7) Cardiac Prescription Recommendation 8) Conversational Agent for Cardiac Rehabilitation
tehyw@um.edu.my	Teh Ying Wah	5 1. LLMs - Enhanced Multi-Density Clustering Process 2. Transforming Workflows with Agentic AI: Financial News and Stock Data Analysis 3. Three-Phase Clustering Model for Stock Data Enhancement leverages cutting-edge technologies like LLMs, SLMs, and Generative AI 4. For kidney stage diagnostics, the Bias-Aware Incremental Fuzzy Clustering Process and Deep Learning with Transformers and Attention Mechanisms 5. The Bias-Aware Incremental Fuzzy Clustering Process integrates fairness and performance by leveraging LLMs, SLMs, and Generative AI
nazlita@um.edu.my	Nornazlita Hussin	1. Data Analysis of User Engagement in AR-Based Retail Applications 2. Evaluating the Effectiveness of AR in Education 3. Data Analysis of User Behavior in AR-Enhanced Tourism Apps 4. Analyzing the Impact of AR-Based Health Apps on Patient Behavior 5. User Sentiment Analysis in AR-Enhanced Customer Support Systems 6. Analyzing Data on Efficiency and Accuracy in Complex Augmented Reality Navigation Environments 7. Data Analysis of User Immersion and Engagement in VR-Based Training Simulations 8. Data Analysis of Virtual Reality for Social Anxiety Treatment
siti_soraya@um.edu.my	Dr. Siti Soraya binti Abdu	1. Explainable and Automated Fact-Checking Machine Learning Approaches for Misinformation Detection on Social Networks. 2. Explainable and Bias-Aware Deep Learning Approaches for Social Media Content Moderation
vimala.balakrishnan@urr	Vimala	1. Tuberculosis Duration Prediction Analysis using Knowledge Graph 2. LLM Chatbot for HIV using Knowledge Graph 3. Audio-based chatbot for HIV Health Information
azahnorman@um.edu.m	Azah Anir Norman	1. AI-Powered Insider Threat Detection in Organizations Using Behavioral Analytics 2. Cloud Security Governance: AI-Driven Risk Assessment for Multi-Tenant Cloud Platforms 3. AI-Powered Email Phishing Detection for Higher Education Networks
erma@um.edu.my	Dr. Erma Rahayu Binti M	1. Predictive Modeling of Fish Population Dynamics Using Machine Learning and Time Series Analysis 2. Deep Learning for Automated Fish Species Classification and Stock Assessment Using Computer Vision 3. Anomaly Detection in Fisheries Data

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hannyz@um.edu.my	Hannyzzura Affal	<ol style="list-style-type: none"> <li>1. Crime Pattern Analysis and Prediction Using Machine Learning - this project focuses on analyzing and predicting crime patterns in Malaysia by leveraging publicly available crime data. It involves exploratory data and</li> <li>2. Predicting Extreme Weather Events Using Machine Learning - to use historical weather data to predict future extreme events like floods, droughts, or hurricanes. Train machine learning models on datasets like rainfall</li> </ol>
rashaatallah@um.edu.my	Rasha Ragheb Atallah	<ol style="list-style-type: none"> <li>1. Predicting Student Performance Using Machine Learning</li> <li>2. Sentiment Analysis of Customer Reviews: Objective: Build an NLP-based model to analyze and classify customer sentiment from product reviews or social media comments.</li> <li>3. Fraud Detection in Financial Transactions: Develop a machine learning model to detect fraudulent transactions in banking data.</li> <li>4. AI-Powered Resume Screening System: Automate resume screening using NLP to match candidates with job descriptions.</li> <li>5. Predictive Analytics for Cancer Diagnosis: Build a model based on patient data to predict cancer.</li> <li>6. Predictive Analytics for Stroke Diagnosis: Build a model based on patient data to predict stroke.</li> <li>7. Predictive Analytics for Heart Disease Diagnosis: Build a model based on patient data to predict heart disease.</li> <li>8. Real-Time Traffic Prediction Using IoT Data to Reduce Jams</li> <li>9. Recommender System for E-Commerce Platforms: Develop a personalized recommendation engine for online shoppers.</li> <li>10. Multimodal AR/VR Data Analytics: Analyze user behavior in immersive environments by fusing eye-tracking data, spatial audio, and haptic feedback to optimize virtual experiences.</li> <li>11. Multimodal Sentiment Analysis in Social Media : Combine text, audio, and visual features to predict emotional intent in user-generated multimedia.</li> <li>12. Deepfake Detection Using AI for Digital Security : Idea: Build an AI model that detects deepfake videos and images used in cyber fraud and misinformation campaigns.</li> <li>13. AI-POWERED CYBERSECURITY THREAT DETECTION IN CLOUD ENVIRONMENTS</li> <li>14. AI-Powered Intrusion Detection System (IDS) for Cybersecurity</li> <li>15. Quantum Cryptography for Secure Data Transmission</li> <li>16. Quantum-Optimized Fraud Detection in Financial Transactions</li> <li>17. Using data science to improve Supply Chain Optimization via Quantum techniques: Implement quantum annealing algorithms to solve large-scale logistics problems, such as route optimization for delivery networks</li> </ol>
whoo@um.edu.my	Hoo Wai Lam	<ol style="list-style-type: none"> <li>1. Athlete's performance analysis using machine learning</li> <li>2. Food calories estimation via image understanding</li> <li>3. Efficient object detection in the dark</li> <li>4. * Please propose your title</li> </ol>
msnizam@um.edu.my	Mohd Shahrul Nizam Mo	<ol style="list-style-type: none"> <li>1. Mental Illness Detection using transformer (Data available)</li> <li>2. AI-Powered Chatbot for Personalized Learning Assistance in Higher Education.</li> <li>3. Automated Resume Screening System Using NLP and Deep Learning</li> <li>4. AI-Driven Personalized Travel Recommendation System</li> <li>5. Sentiment Analysis of Tourist Reviews for Destination Insights</li> <li>6. Automated Chatbot for Smart Tourism Using NLP</li> <li>7. Smart Pest Detection and Control System Using Computer Vision</li> <li>8. Weather-Based Crop Disease Prediction Using Machine Learning</li> <li>9. * Propose your own titles [1]</li> </ol>

[1] Responder updated this value.