



قائمة المواضيع المقترحة لمشروع نهاية الدراسة  
تخصص: ماستر ذكاء اصطناعي وعلم البيانات

| ID    | Supervisor          | Thesis Title                                                                                                                                                                      | Speciality | Students |
|-------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|
| AI-01 | نجد شرف الدين مفتاح | Design and Development of an Intelligent Data Integration System for Energy Sector Using CAMEL BERT Model                                                                         | IA         |          |
| AI-02 |                     | Design and Development of a Meta-Analysis System of Chronic Disease Studies Using the Intelligent Language Models                                                                 | IA         |          |
| AI-03 | كمال معلول          | Big Data Analytics in social media - A Case Study of Twitter                                                                                                                      | IA         |          |
| AI-04 |                     | Design and development of an intelligent <b>chatbot</b> to assist tourists in the city of El Oued                                                                                 | IA         |          |
| AI-05 | مریم حمود           | Advanced Deep Learning and Imaging Techniques for Early Detection and Progression analysis of Knee Osteoarthritis                                                                 | IA         |          |
| AI-06 |                     | AI-Guided Drug Discovery Using Deep Learning                                                                                                                                      | IA         |          |
| AI-07 | نجد كمال بن بركة    | Real-time Face Recognition for Smart Attendance                                                                                                                                   | IA         |          |
| AI-08 | فريدة برتيمه        | A Transfer Learning Approach for Diabetic Retinopathy Classification                                                                                                              | IA         |          |
| AI-09 | طرابلس ستو          | Handwritten Digit Recognition Based on Deep Learning Methods                                                                                                                      | IA         |          |
| AI-10 |                     | Breast Cancer Classification Using Machine Learning and Deep Learning Methods Based on Medical Imaging Datasets                                                                   | IA         |          |
| AI-11 | الساسى مديح         | CNN Classification for Fire Detection and Localization from a Single Surveillance Camera                                                                                          | IA         |          |
| AI-12 | أم الهناء معامرة    | Design of a Scalable AI Platform for Predictive Analytics and Operational Optimization                                                                                            | IA         |          |
| AI-13 | فوزي الزاير         | Développement d'une architecture Légère d'Embedding Multimodal pour la Représentation Universelle de Fichiers                                                                     | IA         |          |
| AI-14 | عبد الحميد نديوي    | Détection d'anomalies dans les modèles de trafic réseau à l'aide de techniques d'apprentissage profond                                                                            | IA         |          |
| AI-15 | عمار بوشريط         | Applying AI-based Techniques to Analyze and Predict Climate Change in an Arid Region: Case Study El-Oued                                                                          | IA         |          |
| AI-16 |                     | A Comparative Analysis of AI-Based and Statistical Methods for Identifying Pre-Eclampsia Biomarkers                                                                               | IA         |          |
| AI-17 |                     | A Scope-Constrained AI-Powered Educational Chatbot to Support English Language Learning in Secondary School: An Application Using Retrieval-Augmented Generation (RAG) Techniques | IA         |          |
| AI-18 | عبد القادر لعويدي   | A low communication federated learning model based on the binary matrix compression technique                                                                                     | IA         |          |

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| AI-19 |                   | Gen-Twin: A Generative Cyber-Digital Twin Platform for Proactive Ransomware Simulation and Defense Efficacy Testing                            | IA |  |
| AI-20 |                   | A Hybrid Intelligence Framework for the Detection of Advanced Persistent Threats Combining Machine Learning and Behavioral Analytics           | IA |  |
| AI-21 | إبراهيم لجلد      | AI Framework for Predictive Intervention in Chronic Disease Management                                                                         | IA |  |
| AI-22 |                   | A Deep Learning Framework for Early Detection of Disease in Potatoes                                                                           | IA |  |
| AI-23 | شفيق برجوح        | Fusion Multimodale CT–Metadata Synthétiques via Vision Transformer et MLP pour la Classification des Maladies Rénales.                         | IA |  |
| AI-24 |                   | SkinViT : Cadre Unimodal Basé sur Vision Transformer pour la Classification Automatique des Maladies Cutanées à partir d’Images Dermoscopiques | IA |  |
| AI-25 | محمد أنور النواوي | Integrating Logical Chain-of-Thought Planning with Agentic Context Engineering for Self-Improving LLM Agents                                   | IA |  |
| AI-26 |                   | Biography Understanding and Quality Evaluation Using Large Language Models and Agentic AI.                                                     | IA |  |
| AI-27 | سناء سحر قية      | Image Captioning using DINOv2 Vision Transformer (ViT) model                                                                                   | IA |  |
| AI-28 | خولة بليلة        | Sentiment Analysis of Text Data Using Artificial Intelligence                                                                                  | IA |  |
| AI-29 | منير بقاص         | Developping Semantic Question Answering over Nutrition Therapy Ressources Using Vector Embeddings and LLMs                                     | IA |  |
| AI-30 | نجوى هدى خلادي    | Lesion segmentation based mathematical model empowering by deep learning                                                                       | IA |  |
| AI-31 |                   | Smart pivot                                                                                                                                    | IA |  |
| AI-32 | احمد غنابزينة     | Deep Learning-Based Fracture Localization in X-Ray Images Using Locally Collected Medical Data                                                 | IA |  |
| AI-33 | مسعود عباس        | RESOLVING SHEDILING TASKS WITH AI                                                                                                              | IA |  |
| AI-34 | معاذ بالي         | A Multimodal Deep Learning Model for Classifying Social Media Content According to Islamic Sharia Principles                                   | IA |  |



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تخصص: أنتزت الأشياء وأمن الشبكات

| ID     | Supervisor        | Thesis Title                                                                                                                                         | Speciality | Students |
|--------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|
| IoT-01 | عبد الكامل بن علي | Hybrid Feature Selection for IoT Data Classification Using ReliefF and Jaya Optimization Algorithm                                                   | IoT        |          |
| IoT-02 | عبد الناصر خلايفة | Federated Learning for Privacy-Preserving Intrusion Detection in IoT Environments.                                                                   | IoT        |          |
| IoT-03 | عبد القادر هيممة  | Secure AI-powered Agricultural Explorer Drone with Edge Processing and Encrypted Cloud Communication                                                 | IoT        |          |
| IoT-04 |                   | Secure IoT Drone-Based Meteorological Station with Data Integrity and Encrypted Telemetry                                                            | IoT        |          |
| IoT-05 |                   | A Smart, Secure Fall Detection and Emergency Alert System for the Elderly and Chronically                                                            | IoT        |          |
| IoT-06 |                   | SolarGridGuard: A Smart, Secure IoT-Based Energy Monitoring and Anti-Theft System for Off-Grid Solar Installations                                   | IoT        |          |
| IoT-07 | محمد كمال بن بركة | IoT-Based Predictive Maintenance for Industrial Equipment                                                                                            | IoT        |          |
| IoT-08 | الساسبي مديليح    | A Practical Implementation and Performance Analysis of a Quantum-Resistant, Additively Homomorphic Encryption Scheme for Secure IoT Data Aggregation | IoT        |          |
| IoT-09 | محمد الدين خباش   | Algerian Desert Agriculture-related Data Collection Using IoT: El Oued Region as a Use Case                                                          | IoT        |          |
| IoT-10 | عادل برهوم        | An Intelligent Irrigation Monitoring Based on Soil Moisture and Temperature.                                                                         | IoT        |          |
| IoT-11 | محمد منير بوحامد  | Developing a Lightweight Intrusion Detection System                                                                                                  | IoT        |          |
| IoT-12 | عبد القادر لعويدي | Securing Medical Images in MIoT: A Reversible Biometric Watermarking System Using Fingerprint Authentication                                         | IoT        |          |
| IoT-13 | مصطفى قارة        | A Non-Traceable Group Signature (NTGS) Scheme: A Privacy-Preserving Solution for Whistleblowing and Censorship-Resistant Systems                     | IoT        |          |
| IoT-14 | شفيق برجوح        | Gestion Intelligente des Déchets Basée sur l'IoT avec Optimisation des Itinéraires                                                                   | IoT        |          |
| IoT-15 | عبد الناصر خلايفة | Anomaly Detection in Retail Property Using Transformers.                                                                                             | IA/IoT     |          |

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| IoT-16 | فوزي الزايز    | Développement d'une Technique de Compression Vectorielle Efficace pour la compression sélective | IA/IoT |  |
| IoT-17 | محب الدين خباش | Generative AI for Enhancing Vehicular Routing Algorithms Performance                            | IA/IoT |  |
| IoT-18 | منير بقاص      | Intrusion Detection System Using Deep Learning                                                  | IA/IoT |  |