Oussema Harrabi

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Objective

First-year ICT engineering student at SUP'COM, ranked 75th out of 1200+ in Tunisia's national engineering exam, with a strong passion for Artificial Intelligence and Machine Learning. I excel in building AI-driven predictive models and web applications, actively exploring their real-world applications through innovative projects, particularly in e-commerce. Motivated by entrepreneurship and innovation, I aim to merge AI with entrepreneurial solutions to create impactful technologies. With high communication skills and a collaborative spirit, I thrive in team environments and am seeking an AI summer internship to contribute to a company's mission of advancing cutting-edge AI solutions.

Education

ICT Engineering Student *Sept 2024 – Present*
SUP'COM – Higher School of Communication of Tunis, Tunis, Tunisia
- Expected Graduation: 2027
- Relevant Coursework: Data Structures and Algorithms, Web Development, Convex Optimization.

Pre-engineering Studies in Math, Physics and Chemistry *Sept 2022 – Jun 2024*
IPEIM – Preparatory Institute for Engineering Studies of Monastir, Tunisia
- Ranked top 75 out of 1200+ in national engineering entrance exam.

Projects

Advanced Ensemble Learning for Housing Price Prediction *Jan 2025*
- Developed a stacked regressor (Random Forest, ExtraTrees, KNN, SVR, meta-model: Ridge) using RandomizedSearchCV, achieving MSE of 0.19 and R^2 of 0.86 on the California Housing dataset, outperforming XGBoost.
- Engineered features with pandas and visualized correlations with Seaborn.

Breast Cancer Diagnosis Prediction *Dec 2024*
- Built a logistic regression model on the Wisconsin dataset, achieving 95% accuracy after cleaning and scaling with StandardScaler.
- Visualized feature distributions with Seaborn heatmaps.

E-commerce Customer Spending Prediction *Nov 2024*
- Created a linear regression model to predict yearly spending, achieving RMSE of 65.12 and R^2 of 0.85.
- Identified session length as a key predictor using Matplotlib visualizations.

E-learning Video Content Creation Internship *Jul 2024*
- Created educational videos to teach baccalaureate science subjects, ensuring clear understanding for students, while managing a team as group leader during a summer internship.

Extracurricular Activities

Training Manager *Mai 2025 – Present*
IEEE CS Chapter – Sup'Com SB, Tunis, Tunisia
- Organize AI/ML workshops for 50+ members, enhancing technical skills.

Media Manager *Oct 2024 – Present*
Team Club, SUP'COM, Tunisia
- Led media coverage for the enterprise forum of SUP'COM, managing content for 1,000+ attendees.

Prosthetic Limb Initiative   *Jan 2025 – Apr 2025*
PACTE Project, SUP'COM, Tunisia
  ○ Led a 4-month project to provide prosthetic limbs to amputees, collaborating with manufacturers.

Ambassador   *Nov 2024 – Dec 2024*
League of Coders & Geeks Hack and Go DataScience Tunis, Tunisia
  ○ Promoted coding competitions, engaging 200+ participants.

Co-founder, Nebras Debate Club   *Jan 2024 – Mar 2024*
IPEIM, Monastir, Tunisia
  ○ Led 5+ sessions to enhance soft skills for 50+ students; club remains active.

Student Delegate   *Mar 2023 – Jun 2024*
IPEIM, Monastir, Tunisia
  ○ Advocated for student interests, improving academic communication.

Competitions & Awards

PEEC – Student-Entrepreneur Status (Level 1)   *Mar 2025*
  ○ Granted for an AI-powered e-commerce comparison platform concept.

ZEN & CIS Challenge – TSYP 2024, 2nd Prize   *Nov 2024*
  ○ Pitched an accessible e-commerce solution idea for ZEN , placing 2nd nationally.

WIEmpower Hackathon – IEEE WIE Sup'Com SB   *Oct 2024*
  ○ Designed a search engine for women-led businesses in a 20-hour ideathon.

HACK4IOT 2023 (Ideathon), 2nd Prize   *Jun 2023*
  ○ Won 2nd place for a scalable IoT solution in the healthcare Industry.

Technical Skills

Programming: Python, C/C++, JavaScript

AI/ML: Scikit-learn, pandas, NumPy, Matplotlib, OpenCV

Web Development: HTML, CSS, React.js

Tools: Git, VS Code, CLion, Packet Tracer

Languages: English (Fluent), French (Fluent), Arabic (Native)

Interests

Passionate about exploring cutting-edge AI technologies, including Large Language Models (LLM), Retrieval-Augmented Generation (RAG), Deep Learning (DL), Chatbots, Computer Vision, and Data Analysis. Actively engaged in learning about Generative AI and AI Ethics to develop innovative and responsible AI solutions.