Achraf Triki

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EDUCATION

National Institute of Applied Sciences and Technology   Sep 2020 - Sep 2025
Computer network and telecommunications engineering degree

EXPERIENCE

Data Science Intern   Jul 2024 - Sep 2024
Manipal Institute Of Technology (MIT) India
- Developed an AI-driven system to analyze data from devices in a smart city prototype.
- Applied machine learning and deep learning algorithms to detect cybersecurity risks in connected devices.
- Created an interactive user interface using Flask to display cybersecurity predictionsfor enabling faster decision-making for cybersecurity teams

Mobile Developer Intern   Jul 2023 - Sep 2023
Telnet Holding
- Designed and developed an Android application to create an EMV tag dictionary using Kotlin and enhancing user experience through an intuitive interface
- Analyzed and identified potential values associated with EMV tags and optimizing tag detection for faster transactions

PROJECTS

Graph Transformer for Human Embryo Selection | *Transformers, Computer vision, GNN, CNN*   Jan 2024 - Jun 2024
- Conducted a strong study of the graph principles, transformers, and the integration of Graph Transformer architectures by reviewing over 15 research papers in the field
- Segmented 1,000 embryo images into patches, passing each through a CNN to extract 512-dimensional node features and 256-dimensional edge features, creating a detailed graph representation
- Implemented the Graph Transformer to classify embryos, leveraging the graph structure built from image features and Achieved a 85% classification accuracy, outperforming traditional CNN-based models by 5%

DevHub – Project Management Platform | *Angular, Nest.js, Web Development, Git*   Jan 2024 - Feb 2024
- Collaborated with a team of four colleagues to design and implement core features such as task management, real-time collaboration, and user authentication
- Led the development of a project management platform for developers using Angular for the frontend and NestJS for the backend
- Implemented key features such as project creation, task tracking, user roles, and notification systems

Image Anomaly Detection | *Auto-encoders, Computer Vision, PyTorch, Python*   Jan 2024 - Feb 2024
- Engineered a deep learning algorithm using auto-encoders for anomaly detection in satellite, images, processing a dataset of over 5,000 images
- Employed image reconstruction techniques to accurately identify 4 specific types of anomalies, including storms and other critical events
- Evaluated the model's performance using various metrics, achieving an accuracy of 95%. and ensuring high reliability in anomaly detection

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, PHP, HTML, Css
Web Development: Symfony, Spring Boot, Angular, NestJS
Mobile Development: Kotlin, Flutter
Data Science: Machine Learning, Data Analysis, Deep Learning
Big Data: Hadoop, Spark
Databases: MySQL, SQL Server
Developer Tools: Git, Docker, PyCharm,
Libraries: pandas, NumPy, Matplotlib, Keras, PyTorch, scikit-learn
Operating Systems: Linux (Ubuntu)

EXTRA CURRICULAR ACTIVITIES

Professional handball player   Sep 2009 - Present

LANGUAGES

English: Fluent, **French:** Fluent, **Arabic:** Native, **German:** Beginner