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Education

University of Tunis, Higher National School of Engineering of Tunis – Tunis, Tunisia
Applied Mathematics and Modeling Engineering Degree
2022 - 2025 (expected)
University of Carthage, Preparatory Institute of Bizerte – Bizert, Tunisia
Passed the national exam for school of engineering entry
2020 - 2022

Internships

Data Science Instructor
GoMyCode, Tunisia – Sept 2024 - now
- Instructing a part-time 5-month BootCamp.

AI Engineer Intern
Yopex, Tunisia – July 2024 - Sept 2024
- Designed and implemented a content-based recommendation system using AI-generated data. **Keywords**: LLM, NLP, Transformers, Hugging Face.

Machine Learning Intern
Smartovate, UK (online) – June 2024 - Aug 2024
- Automated organization tools using NLP techniques achieving 0.85 F1 score accuracy. **Keywords**: NLTK, Sci-kit Learn, Keras, Pandas, Google Cloud Platform.

Machine Learning Intern
ITC Consulting Group – July 2024 - Sept 2024
- Developed a classification model using KNN to identify internal risks and implemented it on NextGRC platform. **Keywords**: Internal Audit, Git, GitHub, Docker.

Data Science Intern
Délice Danone – July 2023 - Aug 2023
- Collected and preprocessed consumer data and conducted behavior analysis using statistical tools. **Keywords**: Data Cleaning, Data Visualization, Python.

Certifications

- Azure AI Fundamentals AZ-900 – Microsoft
- Azure Data Fundamentals – Microsoft

Research

1. **Report on Educational Trends in Tunisia (2023-2024)**
- Utilized predictive modeling techniques to assess future trends in mathematics education.
- Developed a regression model with an F1 score of 0.8 to predict when mathematics education will constitute less than 10% of total students.
- Collaborated with classmates to suggest improvements in education methods.

1. **Optimization Algorithms for Nonlinear Systems: A Comparative Study (2023)**

- Conducted research comparing algorithms: Newton, Adam, Adagrad, and Marquardt-Levenberg.
- Suggested enhancements for performance, convergence, and computational efficiency.

1. **LLMs for Data Synthesis and Text Generation: Summer Internship (2024)**

- Reviewed scholarly articles on large language models (LLMs) to explore their potential for data synthesis.
- Generated datasets showcasing innovative solutions through extensive research.

Projects

1. **Fact-Checking AI Model for Journalism (Ongoing, Sept 2024)**

- Exploring the use of LLMs in detecting fake news.

1. **Real-time Satellite Tracking Web Application (2023-2024)**

- Developed a web app for tracking satellites using Web Scraping, OpenStreetMaps, Flask, and ReactJS.

1. **Blink-to-Morse Project (2024)**

- Developed a project that converts eye blinks into Morse code for communication assistance, inspired by 'Interstellar' and 'Breaking Bad', using OpenCV and Mediapipe.

Skills

- **Programming Languages**: Python, C++, C, Java, PL/SQL, HTML, CSS, JavaScript, Matlab
- **Database Management**: Microsoft SQL Server, PostgreSQL, MongoDB
- **Machine Learning Frameworks**: TensorFlow, Keras, PyTorch, LightGBM, NLTK, SpaCy, Hugging Face Transformers

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Volunteering

- **Media Manager** at Nerdata ENSIT Club: Collaborated on data-driven projects with new students.
- **Junior Enterprise ENSIT**: Worked as a business development member.

Hobbies

- Traveling, attending events, reading articles, blogging, music, movies, cooking.