BADIAA ESSALIHI

Computer Engineering and Data Analysis Student

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I'm a second-year master's student in Computer Engineering, passionate about creating innovative solutions and transforming ideas into practical systems. I enjoy building web applications, analyzing data, and exploring new technologies. My focus is on delivering impactful results through coding and data analysis, constantly seeking to push the boundaries of technology.

EDUCATION

Master's in Computer Engineering and Data Analysis
FS - El Jadida
October 2023 - Present

Bachelor's in Information Systems and Digital Transformation
FST - Settat
September 2022 - July 2023

DEUST in Mathematics, Computer Science, Physics
FST- Settat
October 2020 - July 2022

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, Java

- **Databases and DBMS:** SQL, NoSQL, MySQL, MongoDB, Firebase

- **Web Backend:** Node.js, Express, Django, Flask, REST

- **Web Frontend:** React.js, Next.js, Tailwind CSS

- **Version Control:** Git (collaboration with GitHub)

- **Mobile:** React Native

- **Data Analysis:** Pandas, Matplotlib, Scikit-learn, Keras, NumPy

- **Project Management:** MS Project, Scrum

LANGUAGES

- ARABIC (NATIVE)
- FRENCH (FLUENT)
- ENGLISH (FLUENT)

EXPERIENCE

Full Stack Developer (Intern)   7/2024 - 9/2024
3D Smart Factory
- Developing a web application for 3D object processing as part of a three-member team.
- Simplifying, coloring, and labeling 3D dental models.
- Technologies : Django, Django REST Framework, Next.js 13, TypeScript, Firebase, Tailwind CSS.

Full Stack Developer (Intern)   6/2024 - 8/2024
University of Sciences, El Jadida
- Development of a web application dedicated to doctoral services.
- Centralization of thesis management, research projects, and academic requests for doctoral students.
- Technologies : REST API, React.js, Express, MySQL.

Machine Learning Engineer (Intern)   4/2023 - 6/2023
Collaboration with the Mechanical Engineering Department of FST Settat
- Preventive detection of defects in rotating machines based on vibration data, a project conducted in collaboration with a colleague.
- Statistical analysis of signals and development of an RNN model for prediction.
- Technologies : Python, Matplotlib, Pandas, Keras, Scikit-learn.

PROJECTS

- Analysis of Scientific Publications using the Scopus API: (Python, Flask, Matplotlib, RDF/SPARQL)
- Blood Donation Management Application: (REST API, React Native, Express (Node.js), MySQL)
- Mobile Navigation App for the Faculty: (React Native, Google Maps API, Firebase)
- Android Mobile App for Managing Professional Contacts: (Android Studio, Java)
- Real-Time Sentiment Analysis: (Hadoop, Kafka, Zookeeper, Spark, HBase, HDFS, Flask, YouTube Data API)
- Evaluation of a Classification Model using K-Folds: (Pandas, Scikit-learn (KFold, GridSearchCV), Matplotlib, NumPy)