REFKA MECHRI

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Monastir,Tunis

SOFTWARE_ENGINEERING STUDENT

I'm a highly motivated software engineer student with a creative approach to problem solving. I thrive on tackling complex problems and turning innovative ideas into practical, efficient, and user-friendly software solutions. My mission is to drive technological advancements and make a meaningful impact in the tech world.

EDUCATION

Higher Institute of Computer Science and Mathematics of Monastir
Present
software engineering student

Higher Institute of Computer Science and Mathematics of Monastir
2021-2023
pre-engineering student

PROFESSIONAL EXPERIENCE

TADA **Present**

Database conception and creation

Supervision and participation in the conception and creation of a database for TADA as part of a software engineering internship.

- Collection of relevant Arabic files, including summaries and keywords, for use in the database.
- Clean and organize data to ensure relevance and accessibility.
- Document the data collection, cleaning and organization process for future reference.

PERSONAL PROJECTS

Car Price Prediction **Mai 2024**

- Use of libraries for data pre-processing, building and training the prediction model.
- Implementation of a regression model to predict car prices as determined by characteristics .
- Development of a user-friendly interface enabling users to enter car details and obtain a price estimate.
- Integration of the prediction model into the web application using Flask web frameworks.

Water Quality Potability Classifier **April 2024**

- Led the development of a machine learning project to classify water as potable or not.
- Conducted feature engineering to select and transform relevant features, enhancing model performance.
- Performed data preparation, including cleaning, handling missing values, and normalizing variables.
- Engineered and optimized classification models using techniques such as cross-validation and hyperparameter tuning.

Color Detection Project **April 2024**

- Conception and implementation of a color detection system using computer vision libraries such as OpenCV and Python.

University Website **September 2023 - March 2024**

- Led the development of a university website redesign project, focusing on improving user experience and information accessibility.
- Successfully implemented responsive design, resulting in improved mobile user experience.
- Collaborated with a multidisciplinary team to ensure the project's success.

Handhale - Humanitarian Support and Awareness Platform **December 2023**

- Development of a web platform dedicated to collecting donations to support people affected by the conflict in the Gaza region.
- Integration of awareness-raising elements, including the dissemination of real-time information on the situation in the region and the promotion of boycott campaigns
- Working closely with a multidisciplinary team to ensure the success of the project.

EcoFriend - Environmental Protection Awareness Website **November 2023**

- Development of the EcoFriend website, designed to raise public awareness of environmental protection.
- Implementation of interactive features to provide information on current environmental issues and promote sustainable practices.
- Worked closely with a multi-disciplinary team to ensure the success of the project.

Mobile Developer **November 2023**

- Development of a weather application, focusing on improving user experience and information accessibility.
- Implementation of adaptive design, which improved the user experience on mobile.

JavaCard-Based Transaction Management Project for Banking **September 2023 - November 2024**

- Developed an advanced transaction management application for a banking system utilizing JavaCard technology.

Java Game Development **2021-2022**

- Developed a game using Java programming language, creating an engaging user interface and interactive gameplay.

CERTIFICATIONS

Exploratory Data Analysis for Machine Learning **Coursera -March 2024**

- Deep understanding of exploratory data analysis (EDA) techniques for data preparation in machine learning.
- Acquired skills in data visualisation, data cleaning and exploratory statistical analysis.
- Ability to interpret data graphically and identify hidden structures and patterns.
- Effective use of EDA to understand data structure and trends.

Introduction to Generative AI **Coursera -February 2024**

- Generative AI Overview
- Generative AI Applications and Model Types

SKILLS

Programming Languages
Algorithms and Data Structures
Problem-solving skills
Software Development
UI/UX Design
Mobile Development
Web Development
Communication skills

INTERESTS

Hackathons and coding competitions
Artificial intelligence(AI)
Problem Solving
Leadership
Time management

LANGUAGES

Arabic
French
English