LACHGAR Ridouan

Engineering Student in Data Science, Artificial Intelligence, and Digital Health

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Education

ENSAM Rabat

- *Data Science, Artificial Intelligence, and Digital Health (INDIA&SD)*   *Sept 2024 – Present*

○ Relevant Courses: Software engineering, Digital health, A.I, Business intelligence, Robotics, Machine learning, Data science, Big data, Cloud computing, IoT, Blockchain

- *Preparatory Classes*   *Sept 2022 – August 2024*

○ Relevant Courses: Mathematics, Probability and Statistics, Electricity, Physics, Computer Science

Experience

Automation Intern at ONEP (Office National de l'Eau Potable)   *Rabat, July 2024*

○ Developed and programmed automation algorithms for process control using ST and Lader.

○ Implemented data acquisition systems to collect and analyze performance metrics of pumping stations.

Projects

○ **BMP Filters**
Developed a program to apply various filters (e.g., grayscale, blur) to BMP images using C language.

○ **Finance Flask Project**
Created a web application using Flask to manage financial transactions, including user authentication, transaction tracking, and data visualization.

○ **Tic-Tac-Toe Minimax**
Implemented a Tic-Tac-Toe game using the Minimax algorithm to ensure optimal moves against any opponent.

○ **Traffic Sign Recognition**
Built a neural network model to classify traffic. The project involved training the model, and evaluating its performance on a test set.

○ **Crossword Puzzle**
Designed a program to generate and solve crossword puzzles using backtracking algorithms, enhancing problem-solving skills.

○ **Minesweeper**
Created a Minesweeper game, utilizing algorithms to ensure accurate mine placement and user interaction.

Technologies

○ **Programming Languages:** Python, SQL, Java, C, C++

○ **Tools & Frameworks:** NumPy, Pandas, Matplotlib, Seaborn, ETL, PostgreSQL, Scikit-learn, TensorFlow, OpenCV, Pillow, Git & Gitub

Courses and Certifications

○ **Harvard's CS50x:** Introduction to Computer Science

○ **Harvard's CS50 AI:** Introduction to Artificial Intelligence with Python

○ **DataCamp:** Data Engineer Track & Datacamp Certified Associate Data engineer & Data Science Track

Extracurricular Activities

Vice Head of Sponsoring & Logistics   *CCS, 2023*