NOUHA ESSID

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SUMMARY

Motivated and ambitious fresh graduate in Computer Science Engineering with a strong passion for web development and deep learning fields. Enthusiastic about exploring innovative technologies, contributing to impactful projects, and gaining hands-on experience to enrich my professional profile. Highly driven to excel in both academic and professional environments through collaboration and continuous learning.

WORK EXPERIENCE

Mitacs Globalink Research Internship   **Ontario Tech University**   *Oshawa, Canada*   **06/2024 - 12/2024**

- Compared the effectiveness of traditional path planning algorithms (A*, Artificial Potential Field, etc.) with Deep Reinforcement Learning approaches (DQN, TD3) in optimizing navigation strategies.
- Gained hands-on experience in analyzing, implementing, and testing both approaches to assess performance, efficiency, and adaptability

Apprenticeship Machine Learning   **NextAV**   *Sousse, Tunisia*   **01/2023 - 08/2023**

- Enhanced communication and organizational skills through successful collaboration in a productive work environment.
- Designed and developed machine learning model using **Python**, **Pandas**, **NumPy**, and **scikit-learn** to recommend appropriate crops and fertilizers.
- Implemented algorithms utilizing moisture and vegetation indexes to identify crop types in specific locations.

Event Organizer   **FCEE'10**   *Sousse, Tunisia*   **12/2021**

- As one of the organizers, actively contributed to the planning and execution of the 10th Edition of the FCEE at ENISo, a prominent annual event featuring workshops and seminars, facilitating valuable networking opportunities.
- Worked closely with team members to ensure that events ran smoothly and that participants were satisfied, using communication and event management skills.

EDUCATION

Second Cycle Degree in Engineering   *Sousse, Tunisia*   **09/2021 - 12/2024**
National Engineering School of Sousse

- Diploma in Computer Science Engineering

First Cycle Degree in Engineering   *Monastir, Tunisia*   **09/2019 - 06/2021**
Monastir Preparatory Engineering Institute

- Mathematics and Physics Preparatory Cycle MP

PROJECTS

- **Facial Verification Project:** Developed a Facial Verification application utilizing **Python**, **TensorFlow**, and **Keras**. Led the model training and application enhancement, showcasing proficiency in advanced artificial intelligence technologies

- **House Price Prediction Algorithm**: Developed a house price prediction algorithm using essential libraries, including **scikit-learn** for **Machine Learning**, **NumPy** for numerical computations, **pandas** for data manipulation, and Google Colab, while utilizing the **Boston dataset**.

- **Course Website Project:** Developed the backend of a course platform using **Spring Boot**. Integrated **Keycloak** with **Spring Security** to manage authentication and authorization, demonstrating expertise in backend development and secure application design.

- **Website for Education Abroad:** A website centered around studying abroad using **Angular** and **Node.js**. While I haven't established direct partnerships with universities yet, the platform is designed to facilitate future collaborations. It currently provides essential information about universities in various countries and offers guidance on the application process, making it a valuable resource for prospective international students.

- **Development of a web Chat Application:** Designed and implemented a web Chat Application using **PHP, MySQL, and JavaScript**, allowing users to create accounts, log in, and engage in one-on-one chats with other users.

SKILLS

- Python | Java | JavaScript | CSS | MySQL | Spring Boot | Angular | Git
- Data Visualization | CNN | Scikit-learn | Pandas | Numpy | OpenCV | Keras | Matplotlib | ClusteringSVM | Random Forests | Pytorch | Tensorboard | Optuna | OpenAI Gym
- Problem solving | Machine Learning | Deep Learning | Deep Reinforcement Learning | Computer Vision
- English, French, Arabic

CERTIFICATIONS

- Neural Networks and Deep Learning – DeepLearning.AI
- Angular from Zero to Hero – Instructor BOUALI ALI
- TOEIC Certificate

OTHERS

Active participant in several problem-solving competitions such as TCPC, and Night of Computer Science organized by ACM Club.