AMIN BOUHAMED

IT Engineering Student

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in https://www.linkedin.com/in/amin-bouhamed   ○ https://github.com/aminbouhamed

https://aminbouhamed.github.io/portfolio/

EDUCATION

Higher School of Engineering and Technologies of Tunis   **Sep. 2021 – Now**
IT Engineering Student   *Ghazela,tunisia*

preparatory institue for pre-engineering studies of sfax   **Sep. 2019 – Juin 2021**
Mathematical and physics diploma   *Sfax,Tunisia*

Mongi slim high school   **Sep. 2015 – Juin 2019**
Mathematics Baccalaureate with honor   *Sfax,Tunisia*

EXPERIENCE

3S Startup   **July 2023 – September 2023**
Backend Developer Intern   *Tunis, Tunisia*

- Assisted in development of the Backend end of an online marketplace using Django , SQL server , MongoDB . optimized database queries, resulting in a ĩ2% reduction in page load time and improved user experience.
  Keywords : Django , Djongo , Pymongo , SSMS , MongoDB

RDI research group ESPRIT   **July 2022 – September 2022**
Data Science Intern   *ghazela, tunisia*

- As a part of a 2-members team I helped in developing a catting-edge recommendation system for an online marketplace , 97% of accurate recommendations.
  Keywords : Collaborative filtering ,Content filtering ,ML

PROJECTS

Facial Emotions Recognition | *Python,Machine Learning,open-cv ,Tensorflow,Keras*   **September 2023**

Successfully Developed a facial emotion recognition system that can classify the 7 principal emotions from an image and a live webcam

- Developed and implemented a cutting-edge from scratch neural network architecture for emotion recognition using the "fer2013" dataset.
- trained model by using variants of layers and by varying hyperparameters. The best model was able to achieve 60.1% of validation accuracy

Intelligent machine :Reverse vending machine | *Python, Django,PostgreSQL,Computer vision*   **Mars 2023**

Developed an intelligent Robot that sorts bottles and cans, identifies brands, and measures volume accurately. secured the 3rd place out of 200 Best projects at esprit .

- Fine-tuned "centernet_hg104_512x512" pre-trained model To Detect and clasify inserted items , achieving an outstanding 95% detection accuracy, surpassing YOLOv7 by 2%.
- Fine-tuned a CNN model (InceptionV3) to identify brands with a remarkable 97% accuracy rate, enhancing the sorting process
- Generated a comprehensive dataset ,including height, width, and brand, derived from object detection results. fueled an Artificial Neural Network (ANN) model, achieving an impressive 98% accuracy in classifying bottle volumes.
- Developed a user-friendly Django-based web application, integrated with PostgreSQL, featuring real-time gamification System.

Trend detection system | *Python,Machine Learning,Selenium,Beautiful Soup,Sentiments Analysis*   **January 2023**

Spreadheaded the development of an innovative social media trend extraction system. for the first Tunisian media (faza.tn)

- Proficiently scraped and collected real-time data from Twitter, serving as a valuable source for trend analysis and community engagement assessment.
- Utilized advanced statistical methods and machine learning models to identify and monitor emerging trends within social media platforms, 81% of trendy subjects successfully extracted.
- Transformed data into actionable insights to enhance the performance of our Models.

Technical Skills

Languages:Python, Java, C, SQL
Developer Tools: VS Code, Eclipse,Jupyter Notebook
Technologies/Frameworks: Linux, GitHub,Git,Docker,Latex,Django
Libraries: Pandas, Scikit-Learn , TensorFlow,Open-cv,NLTK ,spaCy **Databases**: PostgreSQL,MongoDB,Microsoft SQL Server

Leadership / Extracurricular

Inceptum Junior Entreprise   **Spring 2022 – Present**
Consultant   *ESPRIT*
   * Senior Member of commercial development department at "INCEPTUM" junior enterprise.
   * Senior Member of project department at "INCEPTUM" junior enterprise.

DeepFlow Club ESPRIT   **December 2022 – January 2023**
Project Manager   *ESPRIT*
   * Spearheaded a Team of 5 members , sucessfully delivred an AI project for our partner (Faza.tn)

Languages

- English
- Frensh
- Arabic(native)