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

Hochschule schmalkalden   oct. 2023 – Now
Computer Science bachelor Student   *Schmalkalden,Germany*

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*

EXPERIENCE

RDI research group ESPRIT   July 2023 – September 2023
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

3S Startup   July 2022 – September 2022
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

PROJECTS

Intelligent machine :Reverse vending machine | *Python, Django,PostgreSQL,Computer vision*   February 2023-april 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|*Machine Learning,Selenium,Beautiful Soup,Sentiments Analysis*   November 2022-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.

KEY SKILLS

Programming Languages: Python, Java, C, SQL
Big Data&Machine Learning: Spark, Hadoop, Python (eg.numpy, pandas,matplotlib, Tensorflow, Keras, Scikit-Learn, Open-cv, NLTK)
Data science&miscellaneous technologies: Statistics, Time series, Hypothesis testing, Django, Linux, GitHub, Git, Docker, Latex, Django
Databases: PostgreSQL, MongoDB, Microsoft SQL Server

CERTIFICATIONS

- Applications of AI for Anomaly Detection Using Generative Adversarial Networks By NVIDIA
- Building Transformer-Based Natural Language Processing Applications By NVIDIA

LEADERSHIP / EXTRACURRICULAR

Inceptum Junior Entreprise   **Mars 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

- Arabic(native)
- English (Fluent)
- Deutch(A1.2)
- french(Fluent)