Amin Bouhamed

IT Engineering Student

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PROFILE

I am a fourth year engineering student at esprit, extremely curious when it comes to computer science especially the Data science field, I am also passionate about learning new technologies and putting my self in new challenges.

PROFESSIONAL EXPERIENCE

intern at RDI research group ESPRIT   07/2022 – 09/2022
worked with a team of 2 members to develop an online recommendation system for an online market place
Keywords : collaborative filtering , SVD,ALS,ML

Intern at 3S company   08/2022 – 10/2022
Developed Backend solution to an online marketplace with django,SQL-server and MongoDB
Keywords ; Django , Djongo , Pymongo , SSMS,MongoDB

PROJECTS

Intelligent machine :Reverse vending machine   02/2023 – 06/2023
- built an intelligent bottles and cans sorter conception
- collected bottles and cans images using a module 2 python script camera linked to a raspberry pi card
- constructed object detection model using the yolov8 model to detect the cup of the bottle, identify if it's a bottle or can achieving a 95% detection accuracy (2% Better than yolov7)
- finetuned a CNN pre-trained model (inceptionv3) that take the output of previous model and predict the brand of the bottle with a reached accuracy 97%
- generated a tabular dataset that contain the height ,width, brand of each bottle . the height and width generated from the results of the object detection model
- built an ANN based model trained on the generated dataset to classify the volume of each bottle with a 98% accuracy
- developed a Django-based web application that was linked with a real-time DB (Firebase) containing a gamification system that gave points to users based on their insertions

manager of a Trend detection system project   01/2023 – 05/2023
- Scraped subject,comments,number of reacts of each post from social media planforms using Selenium,BeatifulSoup
- analyzed the data using Pandas, and extract insights about the subjects and the community's engagement with .
- developed a sentiment analysis model using (NLP) techniques

EDUCATION

IT Engineering Student   2021 – present
ESPRIT   ariana, tunisia

Mathematical and physics diploma   2019 – 2021
preparatory institue for pre-engineering studies of sfax   sfax, tunisia

BACCALAUREATE   2015 – 2019
Mongi slim high school   sfax, Tunisia

SKILLS

python	java	Databases
• scikit-learn	Spring Boot	SQL
• tensorflow		NO-SQL(MongoDB)
• django		

LANGUAGES

French	English	Arabic
		native

ASSOCIATIVE EXPERIENCE

- **Senior Member of commercial development department at "INCEPTUM" junior enterprise**
- **faza trend detection project manager at Deepflow club esprit**
- **Senior Member of project department at "INCEPTUM" junior enterprise**