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Sama Shalabi

GitHub

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Education

An-Najah University — Nablus , Palestine
BSc. in Computer Science Apprenticeship Program (CAP) — Sep 2021 - 2026
Track AI

Yasir Arafat School For Girls — Nablus , Palestine
technology(tawgihi) - grade : 97 — 2020 - 2021

Relevant Coursework: Fundamentals of Artificial Intelligence, Advanced Topics in Machine Learning, Data Mining, Natural Language Processing(NLP), Big Data Engineering, web I (frontend specific), web II (backend specific), Programming Principles I & II (C++ specific), Data Structures, Algorithm Analysis and Design, Introduction to Probability Theory, Database Systems, Software Testing and Quality Assurance(QA)

Microsoft
Develop AI solutions in Azure course
Completed: 2024

Internship Experience

Asal Technologies: Mind Map Generator — Nablus, Palestine
AI Developer Intern — july 2024 - sep 2024
Built the summarization system for node topics using Azure AI summarization APIs.

Projects

Road Sign Detection System (YOLO + ResNet) - GitHub repo
- Built a real-time traffic sign detection system using YOLOv8 for object detection and ResNet18 for image classification.
- Achieved high mAP scores at IoU thresholds of 0.5 and 0.75 > 90% ; conducted extensive evaluation on both bounding box precision and class accuracy > 90%.
- To be integrated with raspberry pi in the future to make toy cars detect the signs and make decisions based on it

Automatic Essay Grading with Instruction-Tuned Transformers - GitHub repo
- Fine-tuned Mistral-7B-Instruct using Unsloth & LoRA for grading student essays based on rubric-based datasets.
- Designed effective instruction-based prompts and contributed to model fine-tuning using Unsloth and LoRA.
- Integrated model inference with a web-based interface using Flask, HTML, CSS, and JavaScript for user-submitted essay grading.

Disease Prediction System - GitHub repo
- Designed and developed a complete disease prediction system for Diabetes, Hypertension, Bronchial Asthma, Allergy, and Common Cold.
- Used symptom-based input with a model of combined classification algorithms (SVM ,decision tree and random forest) to provide health condition predictions.
- Built using Python, pandas, scikit-learn, and Flask for deployment.

Twitter Stream Processing (Scala + Spark) - GitHub repo
- Designed and implemented the data processing pipeline for real-time Twitter streams using Apache Spark and Scala.
- Performed data cleaning, normalization, and transformation to prepare tweets for sentiment analysis and visualization.
- Extracted relevant fields (e.g., text, hashtags, user info), removed duplicates, handled missing values, and applied text preprocessing (tokenization, lemmatization, stopword removal).
- Ensured smooth integration between Kafka (producer-consumer architecture), Spark Streaming, and downstream storage systems (e.g., Elasticsearch).

Mind Map Generator (Azure AI) - GitHub repo
- Built the summarization module using Azure AI services to extract and summarize node topics from PDFs.
- Designed and implemented the mind map interface, including navbar and error page logic (front and back end).
- Stack: Flask, Azure APIs, HTML, CSS, JavaScript.

Technical Skills

Programming languages : C++, HTML, CSS, JavaScript, Python, scala.
Frameworks & Libraries : ReactJS, Node.js, Express, Bootstrap, Flask, Django, Spark , NumPy, pandas, Spark.
Databases: SQL, MongoDB.
Tools: Git, GitHub