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Tala Dweikat

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Education

An-Najah University - Computer Science Apprenticeship Program (CAP) — **Nablus , Palestine**

Jan 2022 - 2025

Relevant Coursework: Introduction to Statistical Analysis , Discrete Mathematics , , Theory of Computation ,Team Project 1 , Team Project 2 , DB , Fundamentals of Artificial Intelligence , SW Engineering, Machine Learning, Advanced ML, Natural Processing Language

Udacity - Data Science Nanodegree Program
Completed: 2024

Knowledge Academy -Full Stack Development Course
Completed: 2024

Udacity - Data Analyst Nanodegree Program
Completed: 2025

365 Data Science - Certificate of Achievement - Data Analyst
Completed: 2024

Projects

E-commerce System - Frontend & Backend | ReactJS | Node| express | MongoDB|Bootstrap| FrontEnd Part : GitHub Link , BackEnd Part : GitHub Link

- Developed a frontend & Backend e-commerce web application using ReactJS for the frontend and NodeJS with Express for the backend .
- Implemented user authentication, product management, shopping cart functionality, and order processing .
- Integrated MongoDB to store user data, product details, and order information.
- Designed responsive UI using Bootstrap.

Tesla Stock Price Prediction – *Full Stack ML System*
| ReactJS | FastAPI | scikit-learn | pandas | numpy | matplotlib | seaborn | joblib | HTML/CSS | axios | GitHub Link
Developed an end-to-end web application for predicting Tesla stock prices using historical and technical indicators across multiple timeframes.

- Built interactive React frontend for inputting data and visualizing prediction results.
- Implemented backend with FastAPI to serve real-time predictions using pre-trained ML models.
- Trained and tuned multiple regression models using scikit-learn, including Random Forest, Gradient Boosting, and Linear Regression.
- Performed data cleaning, feature scaling, model evaluation, and visualization using pandas, seaborn, and matplotlib.
- Serialized models and scalers with `joblib`, integrated with API, and tested using multiple timeframes (1min, 5min, hourly, daily, monthly).

Unibooks - *"with team"* **| ReactJS | Node| express | MongoDB|Bootstrap** GitHub Link
Developed and improved the capabilities of the sales representative team over the course of two years.

- Created a library management system with a React frontend and Node/Express backend.
- Used MongoDB for data storage and collaborated with staff on requirements.

Udacity

Bikeshare - Data Science Project | Python | pandas | time GitHub Link
Developed an interactive Python-based terminal application to analyze US bikeshare data.The application enabled users to filter the data by city, month, and day to compute and display various descriptive statistics .

- Built a CLI tool to analyze and filter bikeshare data by time and location.
- Used pandas for data processing and summary statistics.

Road Sign Detection System (YOLO + ResNet) | YOLOv8 | ResNet18 | Raspberry Pi [GitHub Link]
Built a real-time traffic sign detection system using YOLOv8 for object detection and ResNet18 for image classification. The system achieved high accuracy and is planned for integration with Raspberry Pi for real-world applications.

- Achieved high mAP scores at IoU thresholds of 0.5 and 0.75 (>90%).
- Conducted extensive evaluation on bounding box precision and class accuracy (>90%).
- Planned integration with Raspberry Pi to enable toy cars to detect road signs and make decisions autonomously

SKILLS

- **Languages:** C++, Python, JavaScript, HTML, CSS
- **Frameworks & Libraries:** ReactJS, Node.js, Express, Bootstrap, MUI, NumPy, pandas, Matplotlib, Pytorch, scikit-learn
- **Databases:** SQL, NOSQL, MongoDB, Sequelize
- **Tools:** Git, GitHub
- **Soft Skills:** Excellent communication skills, problem solving