

ABDULLAH NAZLY

Undergraduate

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Profile

Aspiring AI & Data scientist undergraduate with hands-on experience in machine learning model development, data pipelines, and deploying AI-driven solutions. Skilled in Python, PyTorch, and cloud-based workflows (AWS, Docker, Airflow). Strong interest in applying AI to solve real-world challenges through scalable systems and clean engineering practices. Currently on progress of learning new models such as LLMs.

Education

BSc (Hons) Artificial Intelligence and Data Science

Sep 2023 - present

Informatics Institute of Technology affiliated with Robert Gordon University, Aberdeen, United Kingdom.

Year 1

- Computer system fundamentals - B
- Programming fundamentals - B
- Web technology - A
- Computational Mathematics - A
- English communication - B
- Data base system - C

Year 2

- Advanced Mathematics - A
- Object Oriented Development - A
- Machine Learning - A
- Artificial Intelligence - B
- Modelling and Simulation - A
- Data Engineering - D

Projects

Insight Hive – Customer Engagement Prediction (Graph Neural Network) (2025)

Built a GNN-based model using PyTorch Geometric to predict customer engagement level in ad campaigns.

- Modeled campaign components as nodes in a heterogeneous, bidirectional graph.
- Data is preprocessed with correct work flow.
- Assigned meaningful relationships with each nodes representing the campaign components.
- Applied SAGE convolution layers to learn hidden patterns across campaign entities.
- Trained the model and got low MSE and no overfitting, predicting engagement levels.
- Enabled entrepreneurs to tailor marketing strategies based on predicted customer engagement level.
- MongoDB database used to store and retrieve the campaign details.

Used Techs

- **Pytorch** Geometric as the framework to build the graph.
- **Pandas** for data manipulation.
- **Scikit-Learn** to scale the data.
- **Numpy** for mathematical calculations.
- **MongoDB** to store the campaign details.
- **Flask** API for integration.
- **React** as frontened frame work

Weather Data ETL Pipeline with Apache Airflow (2025)

Designed and deployed an end-to-end ETL pipeline using Apache Airflow on an AWS EC2 instance to automate weather data processing and storage in AWS S3 Bucket.

- Integrated with the OpenWeatherMap API to extract real-time weather data on a schedule.
- Performed data transformation and validation using Python within Airflow tasks.
- Configured Airflow DAGs for orchestrating extract-transform-load operations.
- Automated data loading into AWS S3 for downstream processing and storage.
- Focused on scalability, cloud-native workflows, and automated scheduling.

Mawanella Motors Application (Ongoing)

Undergoing project on building a mobile application to sell bike spare parts. React native is used as the UI framework. Planning to implement LLM to recognise the correct spare part with voice recognition input. In this way the user can describe the part and get the correct part name to make the order.

Skills

- Programming Languages: Python, Java, R
- Libraries & Frameworks: PyTorch, TensorFlow, Scikit-Learn, React, Pandas, NumPy, Matplotlib
- Databases: MySQL, MongoDB, Firebase
- DevOps & Cloud: Docker, Docker Compose, AWS, Linux (Ubuntu), GitHub Actions, CI/CD pipelines
- Markup & Styling: HTML, CSS
- Version Control: Git

Extra curriculum and Achievements

- Member: IEEE community, IEEE Robotics and Automation Society.
- Volunteered for IIT CuttingEdge 24 – Logistics volunteering for annual IIT exhibition which is called cutting edge.
- Participated in Codesprint 8 – A competition based on proposing a solution for a real-world problem.
- Participated in Predicta 1.0 – Machine learning competition organized by UOP.
- Participated in IX 24 – A competition based on creating figma design with best UI/UX principles.
- Participated in Tech Trek Industrial Visits.
- Participated in IIT Sports.

Reference

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