

NEHA SHARIQ

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EDUCATION

MSc Data Science, Distinction | Kingston University London | 2023 – 2025

- **Modules:** Machine Learning and AI, Database and Data Management, and Data Analytics and Visualisation.
- **Dissertation:** RoadSense AI: Smart Road Quality Sensor with ML & Computer Vision.

BEng Computer & Information Systems Engineering, 1st | NED University of Engineering and Technology | 2018 – 2022

- **Relevant modules:** Machine Learning and AI, Computer Vision, Database Management Systems, Data Structures & Algorithms, Object-Oriented Programming.
- Accredited under The Washington Accord: PEC Registered Engineer

WORK EXPERIENCE

Data Scientist | Repolify Ltd | August 2024 – Present | London, United Kingdom

- Led a team of three to develop an MVP using **Python**, **GCP**, and **GitHub**.
- Researched **10+** legal AI competitors to analyse tech stacks and ML models.
- Collaborated with cross-functional teams to define and analyse data requirements.
- Built and deployed an **AI** model using **Google Gemini APIs** to generate tailored content from scraped data sources on the cloud.
- Performed data migration from **GCP** to an **AWS S3** bucket.

Research Intern | Kingston University London | December 2024 – January 2025 | London, United Kingdom

- Collected a UK-specific pothole image **dataset** and applied transfer learning on a YOLOv8 model (originally US-trained) with LOOCV, evaluating multiple model variations to optimise performance for UK road conditions.

SQA Engineer | E.Ocean(Pvt)Ltd | November 2022 – August 2023 | Karachi, Pakistan

- Developed and executed **30+** comprehensive test plans and scripts daily, utilising a mix of manual and automated testing with **Python** for Unit, Integration, and System methodologies and logged issues on JIRA.
- Optimised product design via feedback, yielding a **15%** increase in user engagement and attracting new clients.
- Interacted with nearly **35+** clients through online meetings, email exchanges, and on-site visits, streamlining troubleshooting efforts.

Software Engineer | E.Ocean(Pvt)Ltd | April 2022 – October 2022 | Karachi, Pakistan

- Collaborated in the development of 'Partner Portal' using **Java**, **SQL**, and **JavaScript/HTML**. Empowered partners for efficient service management and provided real-time **business insights** through dashboards, resulting in increased partner retention.

ACADEMIC PROJECTS

Intrusion Detection System using ML | Python, Keras, HTML, CSS, Jupyter Notebook

- Developed an intrusion detection system deploying **deep learning models** such as LSTM for **multiclass classification** and an autoencoder for **anomaly detection** using the KDDCUP99 dataset.

Data management and visualisation of the UK Flight Punctuality Statistics dataset

- Analysed the dataset, designed a star schema for the **data warehouse**, and created **visualisations** to gain actionable insights using **Tableau**.

Production Process Optimisation Using ML | Python, HTML, CSS, Keras, VS Code, Power BI

- Developed a **deep learning** model using LSTM for **time series forecasting** of future sales demands.
- Conducted in-depth **data analysis** with **Power BI** to gain valuable insights into the production, identify areas for improvement, and optimise the production process by calculating the demand and machinery required.

Data Analysis of Election Polls concerning Tenure | R, ggplot2

- Conducted exploratory data analysis (EDA) and **statistical analysis** on election poll data using **R** and **ggplot2**.
- Generated **insights** and presented **findings** in a clear **report** format, making results accessible to non-technical stakeholders.

TECHNICAL SKILLS

- **Languages:** Python, SQL, R, Java, JavaScript, HTML, CSS, MATLAB.

- **Developer Tools:** Jupyter Notebook, Google Colab, RStudio, Visual Studio, MySQL Workbench, Oracle Apex, GitHub.
- **Libraries:** TensorFlow, Keras, PyTorch, SciPy, SciKit-Learn, Pandas, NumPy, Matplotlib, Seaborn, ggplot2.
- **Data Analysis & Visualisation Tools:** Tableau, Power BI, Microsoft Excel.
- **Additional Skills:** Data modelling, Data warehouse schema design, Statistical analysis, GCP, AWS.

CERTIFICATIONS

- [Harnessing the Power of Data with Power BI by Microsoft \(Coursera\)](#)
- [Build a Machine Learning Web App with Streamlit and Python \(Coursera\)](#)
- [Databases and SQL for Data Science with Python \(Coursera\)](#)
- [Preparing Data for Analysis with Microsoft Excel by Microsoft \(Coursera\)](#)
- [Google Cloud Foundations \(LinkedIn\)](#)
- [Excel Essential Training \(Microsoft 365\) \(LinkedIn\)](#)
- [What is Data Science? \(Coursera\)](#)
- [Understanding Machine Learning \(Datacamp\)](#)
- [Python From Scratch & Selenium Webdriver QA Automation 2023 \(Udemy\)](#)