Shaheer Khan 🖥 🗐 🖓

Data Engineer

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Profile Summary

- Final-year Data Engineering student with strong skills in programming and big data technologies. Proficient in Python, R, and SQL, with hands-on experience in data analysis, infrastructure engineering, and machine learning. Well-versed in object-oriented programming (OOP) and data structures & algorithms.
- Skilled in databases (MySQL and MongoDB), networking (Cisco), virtualization (NDG), and cloud computing
 (Azure), with a keen interest in AI, emerging technologies, and scalable data solutions. Passionate about optimizing
 data workflows and leveraging automation for efficient data processing.
- A quick learner and problem solver, eager to apply technical knowledge to real-world projects. Enthusiastic about
 working in diverse, multicultural teams to drive innovation in data engineering. A proactive team player, always ready
 to collaborate and contribute.
- Fluent in English and excel in multicultural, diverse work environments.

Education

Technical and Further Education (TAFE) ☐ Bachelors of IT (Data Engineering)
Sydney, Australia, 2023-2025 GPA: 3.25/4.00

Technical skills

Languages: Python, JavaScript, R.

Networking: Cisco.

Databases: SQL: MySQL, NoSQL: MongoDB

Cloud: Microsoft Azure.

Projects & Academic Experience

Fake Currency Detection System – Computer Vision & Machine Learning

University Coursework | [Feb/2025]

- Developed an Al-powered fake currency detection system using deep learning and computer vision, integrating
 TensorFlow, OpenCV, and Raspberry Pi to classify real and counterfeit banknotes in real time.
- Built a custom dataset of real and fake currency images, applying data augmentation to improve model generalization.
 Designed and trained a Convolutional Neural Network (CNN) to extract security features like holograms, watermarks, and microtext, optimizing it with TensorFlow Lite for fast inference on low-power hardware.
- Implemented automated image capture using Raspberry Pi Camera Module, integrating a real-time classification pipeline with an intuitive user interface.

Flight Management System – Data Structure and Algorithms

University Coursework | [Aug/2024]

- Developed a fully functional Flight Management System in Python, integrating object-oriented programming (OOP), data structures, and algorithms.
- Designed a class-based architecture to manage flights, passengers, and bookings, optimizing search and retrieval using
 a Binary Tree. Implemented BubbleSort, MergeSort, and Binary Search to enhance performance. Built a structured
 user interface with menus and integrated file handling for data storage. Added helper functions to improve efficiency,
 ensuring smooth execution and usability.
- Successfully executed and tested the project, demonstrating strong problem-solving, algorithmic thinking, and software development skills.

Ai Powered Resume Screening Tool – Natural Language Processing

University Coursework | [Dec/2024]

- Built an **NLP-based resume screening tool** to automate candidate shortlisting.
- Preprocessed text using tokenization, stopword removal, lemmatization, and word embeddings (TF-IDF, Word2Vec).
- Trained models (Logistic Regression, Random Forest, BERT) to rank resumes based on job descriptions. Achieved high accuracy in matching candidates while optimizing precision, recall, and F1-score.
- Deployed the model on a local machine for **cost-effective**, **on-premises processing**, ensuring data privacy. Documented challenges, improvements, and future recommendations in a detailed report.