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, JavaScript, CSS, 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 and 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, SQL, CSS, R.
Frameworks: Pandas, NumPy, Scikit-Learn, spaCy, regex, TF-IDF techniques, TensorFlow, OpenCV.
Databases: **SQL:** MySQL, **NoSQL:** MongoDB.
Cloud: Microsoft Azure, AWS.

Projects & Academic Experience

AI Powered Resume Ranking System – Natural Language Processing   LINK | March 2025
- Designed a full-stack resume screening web app combining **React** (frontend) and **Flask** (backend) for automated resume ranking.
- Extracted key candidate information (skills, experience, education) using **spaCy**, **regex**, and **TF-IDF** techniques. Matched resumes to job descriptions using **semantic similarity** (BERT embeddings via SentenceTransformer) and calculated a weighted match score.
- Built a visually appealing, responsive frontend with resume upload, real-time job input, and automatic ranking table using **JavaScript and CSS**.

Counterfeit Currency Detection System – Computer Vision & Machine Learning   LINK | January 2025
- Developed an **AI-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   LINK | August 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.