SHANTANU FUKE

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Education

Texas A&M University Kingsville **August 2023 – May 2025**
Master of Science in Computer Science *Kingsville, Texas*

Coursework

- Artificial Intelligence (AI)
- Application of Neural Networks
- Database Systems
- Analysis of Algorithms
- Operating Systems
- Cloud Computing

Experience

Texas A&M University Kingsville **Jan 2024 – Present**
Research Assistant *Texas A&M University Kingsville , USA*

- Designed and implemented neural networks for DNA enhancer prediction, **achieving a 20% increase in prediction accuracy.**
- Developed a **C++ tool** to determine sequence similarity, **reducing computation time by 40%** and **increasing similarity measurement accuracy by 10%.**
- Automated the data pipeline using Python, **reducing manual processing time by 40%.**
- Utilized Python for data preprocessing, transforming large FASTA files into neural network-compatible formats, **boosting model accuracy by 15%.**

Deloitte Consulting Private Limited **October 2021 – July 2023**
Oracle Retail Developer *Pune, India*

- Optimized data transfer from **Google Cloud Platform (GCP)** to **Oracle Retail Merchandising System (RMS)** using an automated PL/SQL program. This innovative solution reduced allocation **upload time by 40%**, maintained data consistency, and improved **scalability**, empowering stakeholders with **real-time inventory data** for informed decision-making.
- Integrated **Oracle RMS** with **SAP ERP** to **automate invoice processing**, **accelerating stakeholder experience by 60%** and improving workflow efficiency and data accuracy through a flexible approach.
- Collaborated on designing and developing the **"Deals to Stock Ledger Interface"** using PL/SQL within the **Deals module of Oracle Retail Merchandising Suite**. This practical integration achieved efficient deal processing, ensured data integrity in the stock ledger, and earned client appreciation for its ability to **handle large data volumes** effectively.
- Led the design and implementation of an Oracle Retail Cloud location list creation program, which streamlined the process and **cut user time by 70%**. This method demonstrated a sophisticated conviction for learning and continuous improvement.

Tata Consultancy Services Ltd. **April 2019 – October 2021**
Oracle PL/SQL Developer *Pune, India*

- Architected and constructed a PL/SQL program for seamless migration of **80% Coupa (business spend management platform) purchase orders** to **Oracle E-Business Suite**. This novel technique automated data transfer, **achieving a 20-hour weekly reduction in manual entry**, and demonstrated a focus on productivity.
- **Automated Supplier Invoice Management** process within Oracle E-Business Suite using PL/SQL, which resulted in efficient processing and a **80% data accuracy** improvement. The approach also demonstrated practical solutions by reducing **processing time by 60%**.
- **Reduced user creation time by 60%** through custom PL/SQL solutions **automating account creation and email notification** in Oracle E-Business Suite. This underscored an adaptable and creative approach to finding solutions.
- Leveraged the Oracle E-Business Suite **Supplier API** to automate supplier attribute updates, **eliminating manual edits** and **achieving an 80% reduction in overall effort**, thereby improving scalability and demonstrating a comprehensive grasp of system capabilities.

Projects

Lung Cancer Sub-Classification Using Deep Learning | *TensorFlow, Keras, Python* **May 2024**

- **Developed a CNN model** to classify non-small cell lung cancer images into squamous cell carcinoma and adenocarcinoma using the LC25000 dataset. Utilized TensorFlow and Keras for model building, training, and evaluation. Implemented a model with three convolution layers, max-pooling, and dense layers, achieving **98% accuracy on the test set**.

Chest X-ray Medical Diagnosis Using Transfer Learning | *TensorFlow, Keras, Python* **Jan 2024**

- Leveraged transfer learning with a pre-trained ResNet model to classify chest X-ray images into two diagnostic categories.Fine-tuned the last few layers of the ResNet model and added custom layers for binary classification. **Achieved 85% validation accuracy**, demonstrating robust classification performance and the potential of transfer learning for medical image diagnosis.

Technical Skills

Programming Languages: Python, Java, C, C++ (Programming Language), Oracle PL/SQL, R
Databases: Oracle Autonomous Database, Oracle NoSQL Database, Distributed Databases, Cloud Database, Database Technologies, Private Clouds, Distributed Caching, Query Optimization, Storage Engine Oracle Database, Data Management, Data Warehousing, Language Design, Oracle Engineered Systems, In-Memory Database, Internal Database, Oracle Database technology, Database Systems, Complex Systems
Web Technologies: HTML, CSS, JavaScript, Full Stack Development,
Development Tools: Git, Visual Studio, Eclipse, Jupyter Notebooks, SQL Developer, Shell Scripting, Oracle BI Publisher, Cloud Computing, Business Software
Machine Learning Frameworks: PyTorch, TensorFlow, Keras, AI
Systems and Technologies: Distributed Systems, Operating Systems, Computer Architecture, Multicore Programming, Concurrent Programming, Parallel Programming, Systems Programming, Software Architecture, Automatic Parallelization