

SHANTANU FUKE

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Education

Texas A&M University Kingsville

Master of Science in Computer Science

August 2023 – May 2025

Kingsville, Texas

Coursework

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

Experience

Texas A&M University Kingsville

Jan 2024 – Present

Research Assistant

Kingsville, TX, 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

Oct 2021 – Jul 2023

Oracle Retail Developer

Pune, India

- Automated **data transfer from Google Cloud Platform to Oracle RMS with PL/SQL**, **reducing upload time by 40%**.
- Developed an integration between **Oracle RMS and SAP ERP** to automate **invoice processing**, boosting workflow efficiency and **improving data accuracy by 60%**.
- Developed **"Deals to Stock Ledger Interface"** in PL/SQL, **optimizing deal processing** and ensuring **data integrity** for large volumes.
- Led the **design and implementation of Oracle Retail Cloud location list creation program**, **cutting manual creation time by 70%** and mentoring team members with **Shell scripting expertise**.

Tata Consultancy Services Ltd.

Apr 2019 – Oct 2021

Oracle PL/SQL Developer

Pune, India

- Developed a PL/SQL program to migrate **80% of Coupa purchase orders to Oracle E-Business Suite**, automating data transfer and saving **20 hours weekly in manual entry**.
- **Automated Supplier Invoice Management** in Oracle E-Business Suite with PL/SQL, resulting in an **80% increase in data accuracy** and **60% reduction in processing time**.
- **Reduced user creation time by 60%** with custom PL/SQL solutions that **automated account creation and provided email notifications to users** in Oracle E-Business Suite.
- Developed and maintained **Oracle Forms and Reports**, utilizing strong debugging skills to resolve complex issues and enhance system performance.

Projects

Facebook Clone Project | *Python, Django, JavaScript, HTML, CSS*

October 2024

- Developed a **social networking platform** with Django, featuring **user registration, secure authentication, profile management**, and **real-time updates** for posts, comments, and likes via AJAX, along with a friend request system, notifications, **real-time chat using WebSockets**, and responsive design for cross-device compatibility.

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, achieving **98% accuracy on the test set** with three convolutional layers, max-pooling, and dense layers.

DNA Promoter Classification Using Deep Learning | *Keras, TensorFlow, Python*

Jan 2024

- Developed a **CNN model** using **Keras** and **TensorFlow** for classifying DNA promoter sequences, achieving **89% test accuracy**. Processed two datasets of **promoter** and **non-promoter sequences**, ensuring **data cleanliness** and proper **encoding** for effective CNN training. Evaluated model performance through metrics including **test loss, accuracy, classification report, confusion matrix**, and **ROC curve**, allowing for comprehensive analysis and refinement.

Skills

- **Programming Languages:** Python, Java, C++, PL/SQL
- **Web Development:** HTML, CSS, Django, Bootstrap
- **Databases:** Oracle, MySQL, PostgreSQL, MongoDB
- **Version Control:** Git, GitHub, GitLab
- **DevOps Tools:** Docker, Kubernetes, CI/CD Tools (GitHub Actions, Jenkins)
- **Cloud Platforms:** AWS, Google Cloud Platform (GCP)
- **Machine Learning & Data Analysis:** TensorFlow, Scikit-learn, Pandas, Matplotlib
- **ETL Tools:** Apache Spark, Apache Airflow