Aniket Mane

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Education

- **New York University** **GPA: –**
  Master of Science - Computer Engineering *June 2026*
- **NMIMS Mukesh Patel School of Technology Management** **GPA: 3.54**
  Bachelor of Technology - Information Technology *July 2019 -June 2023*

Skills

- **Programming Languages**: C++, Java, Python, JavaScript, C, SQL, TypeScript
- **Development and Databases**: PostgreSQL, MongoDB, SQL Query Optimization
- **Frameworks**: React, Node.js, Spring Boot, Microservices Architecture
- **Cloud and DevOps**: Oracle WebLogic, Kubernetes, Docker, Git, AWS,Jenkins
- **Data Analysis and ML**: Data Preprocessing,Hadoop,PySpark Feature Engineering, Model Evaluation Metrics

Work Experience

- **Oracle Financial Software Services** Mumbai, India
  Associate Consultant *June 2023 - June 2024*
  - Led full stack development and backend fixes for Yes Bank, **boosting compliance and performance by 16% over the previous version**.
  - Integrated address update notifications sent to **1 million customers via email and SMS using Java, Kafka, and SQL**.
  - Modified the existing SGB module in Java to comply with RBI guidelines, ensuring adherence to financial regulations.
  - Set up two new testing environments and one migration environment using **Oracle WebLogic and Oracle HTTP Server**, enabling rigorous testing without impacting the main application and improving testing efficiency.
  - Led collaborative efforts with Banking, Digital Technology, and Production Support teams across Mumbai and Bangalore to define and implement key functional enhancements, resulting in improved operational efficiency.

Projects

Movie recommendation System Using Big Data Techniques — *PySpark,Spark SQL,Spark MLlib,Python,Matplotlib,Seaborn* *Oct 2024- Present*

- Designed and implemented a scalable **Movie Recommendation System** using **PySpark** and **Spark MLlib**, leveraging **distributed computing** for processing large datasets.
- Optimized data pipelines with techniques like **repartitioning** and **string indexing** to improve performance.
- Trained a collaborative filtering model (**ALS**) to generate personalized movie recommendations, addressing challenges such as cold-start issues.
- Processed and analyzed data in **TSV format**, integrating advanced **data engineering** and **machine learning** concepts for end-to-end system deployment.

Psychological Disorder Detection Based On Handwriting — *Python, CNN, ML, TensorFlow, Keras Feb 2023 - Aug 2023*

- Developed a **Convolutional Neural Network (CNN)** using the **ResNet v4** architecture to predict psychological disorders through handwriting analysis.
- Modified the **input and output layers** of ResNet v4 to focus on recognizing and extracting features such as **curves, height, and style of writing**.
- Collected and processed data from **646 university students**, as relevant online datasets were scarce. Divided the data into **30% for training** and **70% for testing**.
- **Cleaned and adjusted the data** by cropping images to sizes of **232x232, 332x332, and 632x632** to evaluate and determine the most effective dimensions for model efficiency.
- Achieved an accuracy improvement from **70% to 88%** by training the model on this custom dataset.
- Tested and compared the final model's performance with various **machine learning algorithms**, including **ensemble learning, SVM, weighted SVM, and random forest**, to ensure robustness and accuracy.

Publications

- **Enhancing Lung Cancer Detection** **Read the Paper**
  - Developed a hybrid model integrating **Adaptive Neuro-Fuzzy Inference System (ANFIS)** with **VGG-19** deep learning architecture to enhance lung cancer detection.
  - Applied **VGG-19** for advanced feature extraction and **ANFIS** for refined classification, significantly improving diagnostic accuracy and interpretability.
  - Trained and validated the model using the **IQ-OTH/NCCD dataset**, achieving notable advancements in classification precision and diagnostic reliability.
  - Demonstrated improved performance metrics, including higher classification accuracy and reduced false positives, contributing to more reliable cancer diagnostics.