Shubham Gajanan Tade

◇ Pune, India ◇ Shubhamgtade123@gmail.com ◇ +91 7030409591 ◇ GitHub ◇ LinkedIn

Education

Dr. Babasaheb Ambedkar Technological University — Lonere, India
B.Tech. in Computer Science & Engineering | CGPA: 7.48 — 2020-2024

Work Experience

AI ML Engineer | PandoAI Solutions Pvt. Ltd.   **Jul 2025 – Present | Hybrid (Pune)**

- Cleaned and organized large-scale hospital datasets using Python and Excel, filling in missing details such as specialties, services, Doctors and Beds count, and geolocation information.
- Planned automated workflows to collect hospital details from **Practo** and official government health portals, compiling a database of over **1,00,000 + hospitals across India**.
- Linked **NABH** and **MJP_JAY** accreditation and Health Assurance data with hospital records to improve completeness and accuracy.
- Developed and launched the **Caresila Hospital Portal** using **Supabase** and **Vercel**, featuring verified hospital data, maps, and interactive pages for easy hospital discovery.
- Used **GenAI and automation strategies to resolve complex business challenges** to streamline workflows, optimize data preparation, and bring innovative ideas into production.
- Contributed to a growing healthcare startup's **PandoAI's mission** of improving hospital accessibility and transparency through **AI-powered healthcare innovation**.

Live Project: *https://caresila-hospital-portal.vercel.app/*

Projects

Detecting Pneumonia in Chest X-Rays | Deep Learning   GitHub Repository
Python, Pandas, NumPy, TensorFlow, CNN, Jupyter Notebook, OpenCV

- Created a **CNN model** to classify chest X-rays as Normal or Pneumonia with **80% accuracy**.
- Performed data preprocessing, class imbalance handling and data augmentation on 1,400+ training images.
- Improved model **generalization by 15% by fine-tuning CNN architecture** and optimizing and learning rate.

Bank Loan Approval Classification | Machine Learning   GitHub Repository
Jupyter Notebook, Python, NumPy, Pandas, Seaborn, Scikit-Learn

- Designed predictive model improving bank loan approval **accuracy 98% using 61,000+ financial records**.
- **Analyzed 61,000+ records**, removed outliers, balanced data, and standardized features to enhance model.
- Prepared a stacking model with Decision Tree, RF, Logistic Regression, and others, **reaching 98% accuracy**.

Sentiment Analysis on Text Data | Deep Learning (RNN, GRU)   GitHub Repository
Python, NumPy, Pandas, NLTK, TensorFlow, GRU, Keras, Jupyter Notebook

- **Built a GRU-based model achieving 78.8% validation accuracy on 27,000+ labeled sentiment text records.**
- Applied text preprocessing, tokenization, and label encoding to prepare multi-class training data.
- Enhanced model robustness by tuning GRU architecture and saved final model with <50ms prediction latency
- Deployed the model using .h5 and tokenizer .pkl, enabling real-time sentiment classification via text input.

Technical Skills

- **Languages & Tools:** Python, SQL, Jupyter Notebook, Git, Vercel, Supabase.
- **AI & Deep Learning:** Transformers, Self-Attention, Encoder-Decoder, CNN, RNN, LSTM, GRU, TensorFlow/Keras.
- **Data Science:** Machine Learning (Scikit-learn), NLP (NLTK), Pandas, NumPy, Matplotlib, Statistical Analysis, Power BI, Advanced Excel.
- **Soft Skills:** Explaining ideas in clear ways, Being a good listener, Team Collaborative.

Certification

Mastering in Data Science Feb 2025

3RI Technology, Pune

- Gained expertise in Python, ML, Deep Learning, and Data Visualization (Power BI, Excel) through capstone projects on predictive modeling and AI solutions.

Achievements

- **Won 2nd place in a college-level project** competition for developing a machine learning model.
- Led a team for an SIH-level IoT project during college and published a research paper based on the solution.