

# Shubham Gajanan Tade

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## Education

### Dr. Babasaheb Ambedkar Technological University

B.Tech. in Computer Science & Engineering | CGPA: 7.48

Lonere, India

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 **Gen AI 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

Python, Pandas, NumPy, TensorFlow, CNN, Jupyter Notebook, OpenCV

[GitHub Repository](#)

- 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 learning rate.

### Bank Loan Approval Classification | Machine Learning

Jupyter Notebook, Python, NumPy, Pandas, Seaborn, Scikit-Learn

[GitHub Repository](#)

- 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)

Python, NumPy, Pandas, NLTK, TensorFlow, GRU, Keras, Jupyter Notebook

[GitHub Repository](#)

- **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

- **Programming Languages:** Python
- **Machine Learning:** Supervised & Unsupervised Learning | Feature Engineering | Model Evaluation
- **Deep Learning:** ANN | CNN | RNN | LSTM | GRU | Encoder - Decoder
- **Data Handling & Transformation:** Pandas | NumPy | Data Cleaning | Scaling | Encoding
- **Statistical Analysis:** Central Tendency | Distributions | Correlation | Hypothesis Testing
- **NLP:** Text Classification | Tokenization | Named Entity Recognition (NER) using NLTK
- **Visualization & Reporting:** Microsoft Power BI | Advanced Excel | Matplotlib | Seaborn

- **Tools & Libraries:** Sci-kit-learn | TensorFlow/Keras | Jupyter Notebook
- **Soft Skills:** Explaining ideas in clear ways | Being a good listener | Team Collaborative

## Certification

### Mastering in Data Science

3RI Technology, Pune

Feb 2025

- 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.