Shubham Gajanan Tade

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# Education

**Dr. Babasaheb Ambedkar Technological University** Lonere, India

B.Tech. in Computer Science & Engineering | CGPA: 7.48 2020-2024

# Projects

**Detecting Pneumonia in Chest X-Rays | Deep Learning** [GitHub Repository](https://github.com/shubhu111/-Detecting-Pneumonia-in-Chest-X-Rays-Using-CNN-Ai-project.git)

*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.
* Exported a CNN model as a ‘Joblib’ file, achieving real-time predictions with 2s/image latency.

**Bank Loan Approval Classification | Machine Learning** [GitHub Repository](https://github.com/shubhu111/Bank-Loan-Approval-Classification-Machine-Learning-Project.git)

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

* Developed 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.
* Built a stacking model with Decision Tree, SVM, Logistic Regression, and others, **reaching 98% accuracy**.
* Save the model as a ‘pickle’ file for deployment and enabled real-time predictions.

**Hotel Booking Data Analytics and Visualization using Microsoft Power BI** [GitHub Repository](https://github.com/shubhu111/Hotel_Booking_Data_Analytics_Using_Power-Bi_Project.git)

*Microsoft Power BI*

* **Implemented interactive Power BI dashboard** to analyze trends **from 50,000+ hotel bookings**.
* **Identified 3+ key trends** in cancellations, seasonality and customer behavior across booking records.
* Generated **actionable findings from 50,000+ bookings** to enhanced hotel revenue and customer engagement.

# Technical Skills

* **Programming Languages:** Python | SQL
* **Machine Learning:** Supervised & Unsupervised Learning | Feature Engineering | Model Evaluation
* **Deep Learning:** ANN | CNN | RNN | LSTM
* **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** Jul 2024

*3RI Technology, Pune*

* Developed 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 developed.