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
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
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
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.