

Pranay Jagtap

Nagpur, Maharashtra, India • +917758930455 • pranays.jagtap@gmail.com • [linkedin.com/in/pranayj-ml-engineer](https://www.linkedin.com/in/pranayj-ml-engineer) • <https://pranayjml.odoo.com>

OBJECTIVE

Machine Learning Engineer with intermediate Python skills for model training/deployment using pandas, scikit-learn, TensorFlow. Experienced in data preprocessing, feature engineering, model selection, and evaluation. Strong problem-solving abilities and passion for leveraging ML to drive impact. Quick learner and effective team collaborator.

WORK EXPERIENCE

MACHLAB INNOVATIONS AND RESEARCH CENTER • Nagpur, MH, IN

Electrical Engineer

- ◆ Designed and developed circuit schematics and PCBs.
- ◆ Assist in designing, developing, testing and integrating inverter for solar inverter.
- ◆ Executed hardware tests with oscilloscopes and DMMs.

PROJECTS

Hand Signs Classification using Transfer Learning

URL: <https://pranayjml.odoo.com/blog/portfolios-1/fine-tuned-hand-sign-classifier-5>

- The task was to successfully classify hand signs into numbers from 0 to 5.
- A base model was built with data augmentation layer and EfficientNetB0. This model was trained using 10% of the training data to implement feature extraction transfer learning.
- Later the base model was fine-tuned by unfreezing top 10 layers of EfficientNetB0 model & reducing learning rate by 10%, keeping the training data only 10%.
- Finally, the base model was re-trained on 100% training data. The final model achieved 93.33% accuracy & 96% AUC-ROC score.

Indian Foreign Exchange Reserves Prediction

URL: <https://pranayjml.odoo.com/blog/portfolios-1/indian-foreign-exchange-reserves-prediction-3>

- Main objective was to successfully predict future foreign exchange reserves (in US \$ Million).
- Conducted Exploratory Data Analysis on each indicator in dataset from Reserve Bank of India (RBI).
- Compared performance of the different times series regression models with Facebook's Prophet model.
- Selected the best performing Prophet model to predict future Foreign Exchange Reserves.

SKILLS

- ◆ **Technical Skills:** Programming Skills (Intermediate), Data Manipulation and Preprocessing (Basic), Machine Learning Algorithms and Techniques (Basic), Model Evaluation and Deployment (Basic)
- ◆ **Programming Language:** Python
- ◆ **Tools & Libraries:** Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn, Plotly, Git, GitHub, Anaconda, Linux
- ◆ **Soft Skills:** Communication Skills, Problem-Solving Skills, Adaptability and Continuous Learning, Attention to Detail, Teamwork and Collaboration
- ◆ **Languages:** English (Intermediate), Hindi (native), Marathi (native)

EDUCATION

Bachelor of Electrical Engineering • Nagpur University • Nagpur, MH, IN

CGPA **8.2**