

# Pranay Jagtap

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## OBJECTIVE

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I am an aspiring Machine Learning Engineer with intermediate Python skills for model training/deployment using pandas, scikit-learn, TensorFlow, PyTorch, mlflow & Docker. 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

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**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

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### Hand Signs Classification using Transfer Learning

URL: <https://pranayjagtap.netlify.app/portfolio-template.html?id=003-finetune-hand-sign-classification>

- 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://pranayjagtap.netlify.app/portfolio-template.html?id=001-foreign-exchange-reserves-prediction>

- 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

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- ◆ **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, PyTorch, Matplotlib, Seaborn, Plotly, mlflow, Docker, 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

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

CGPA 8.2