Pranay Jagtap

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OBJECTIVE

Machine Learning Engineer with intermediate Python skills for model training/deployment using pandas, scikit-learn, TensorFlow, PyTorch & mlflow. 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://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=003-finetune-hand-sign-classification

- 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 Facebooks' 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, Sckit-learn, TensorFlow, Keras, PyTorch, Matplotlib, Seaborn, Plotly, mlflow, 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**