Pranay Jagtap

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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 • 2022 – 2023
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.

EDUCATION

Bachelor of Electrical Engineering • Nagpur University • Nagpur, MH, IN • 2016 – 2020 — CGPA **8.2**
HSC in Electronics • Maharashtra State Board • Nagpur, MH, IN • 2014 – 2016 — Percentage **79%**
SSC • CBSE • Nagpur, MH, IN • 2013 – 2014 — CGPA **8.2**

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, 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)

PROJECTS

Hand Signs Classification using Transfer Learning • URL: https://pranayjagtap06.github.io/portfolios/portfolios-1/

- 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://pranayjagtap06.github.io/portfolios/portfolios-3/

- Main objective was to successfully predict future foreign exchange reserves (in US $ Million).
- Worked on a dataset from the Reserve Bank of India's (RBI) database.
- Conducted Exploratory Data Analysis (EDA) on each indicator.
- Trained and 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.