Pranay Jagtap

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Machine Learning Engineer

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. Skilled in building end-to-end ML pipelines. 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, Maharashtra, India • 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 • Prerna Junior College, Nagpur, MH, IN • 2014 – 2016 **Percentage** 79%
SSC • Bharatiya Vidya Bhavan's, 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

Indian Economy - Foreign Exchange Reserves Prediction • URL: Foreign Exchange Reserves Prediction

- 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.

0 to 5 Hand Signs Classification • URL: Hand Signs Classification

- Imported and pre-processed dataset before passing to the CNN model.
- Compiled a CNN model with Adam optimizer to first find the ideal learning rate of 0.002.
- Built and compiled final CNN model with Adam optimizer with learning rate of 0.002 and achieved model accuracy of 85% and categorical accuracy of 100% on validation test.
- Achieved model accuracy of 88.33% and categorical accuracy of 100% on test set.