Ved Prakash Pathak

Aspiring ML engineer | MLOps engineer | Data scientist with a keen interest in leveraging cutting-edge technologies to solve complex problems and drive innovation in the field of machine learning and artificial intelligence.

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Libraries and Framework

Programming Language	Python
Deep learning Framework	Tensorflow
Machine learning Libraries	Scikit-learn , XGBoost
Visulization Libraries	Matplotlib , Seaborn , Plotly
Cloud Platform	GCP , AWS
Workflow Orchestration	Apache Airflow, Kubeflow, MLFlow
Machine Learning pipeline:	TFX, Vertex AI, Sagemaker
Continuous Integration/Continuous Deployment (CI/CD):	GitHub Actions, Jenkins, Cloud Build
Monitoring and Visualization	Grafana, MLFlow
Web Framework / Rest API	Streamlit, Flask, FastApi, HTML, CSS
ETL pipelines	Apache Spark

Certifications

TensorFlow on Google Cloud	Google
Recommendation Systems on Google Cloud	Google
Production Machine Learning Systems	Google
ML pipelines on Google Cloud	Google
Machine Learning Operations (MLOps):	Google
MLOps with Vertex AI	Google
Computer Vision Fundamentals with Google Cloud	Google
Feature Engineering	Google
Kubeflow Bootcamp	ûdemy
TensorFlow Developer	ûdemy
The data science Course	ûdemy

Projects

Project Name	Domain	Key Listings of Project	Summary
Loan Status Prediction	Structured Data	Scikit-learn, TensorFlow, TFX, Airflow, MLFlow, Jenkins	Proficient use of Scikit-learn and TensorFlow for modeling, TFX and Airflow for pipeline orchestration, MLFlow for experiment tracking, CI/CD and Jenkins for automated deployment and continuous integration, Model Packaging for efficient distribution, and Streamlit for providing a user-friendly web interface for predictions, with cloud deployment utilizing Docker and Kubernetes for scalable and reliable infrastructure.
Intel Image Classification	Comp vision primarily based on Resnet and Custom layer Architecture	TensorFlow, MLFlow, Streamlit, AWS/GCP, Airflow, Jenkins, Resnetv50, Conv2D	Proficient use of TensorFlow Keras for modelling, Airflow for pipeline orchestration, MLFlow for experiment tracking, CI/CD and Jenkins for automated deployment and continuous integration, Model Packaging for efficient distribution, and Streamlit for providing a user-friendly web interface for predictions, with cloud deployment utilizing Docker and Kubernetes for scalable and reliable infrastructure.
Disaster Tweets	NLP	TensorFlow, Scikit-Learn, Text-Vectorization, Embedding, Pre-Built Transformers, TensorFlow-hub	This project aims to classify tweets as either related to real disasters or not using Natural Language Processing (NLP) techniques. The dataset used for training and evaluation contains tweets collected during natural disasters.
Bitcoin Price Prediction	Time series Analysis	LSTM, 1D CNN	We gather Bitcoin price data, format it for time series, split into training/test sets, and visualize patterns. Then, we apply supervised learning, deep learning models, and ensembling for forecasting.
YOLO OBJECT DETECTION	Object Detection	Yolov8	This Project contains implementations of various image detection projects using the YOLO (You Only Look Once) object detection algorithm. Projects include car counting, people counting, Personal Protective Equipment (PPE) detection, and Poker hand detection. Each project utilizes specific YOLO models trained for the respective tasks.

NOTE : - Please note that more projects can be found on my GitHub profile. Thank you for your interest.

Education

Course / Degree	University	Grades	*Year*
MECHANICAL ENGINEERING	RAJIV GANDHI PROUDYOGIK VISHWAVIDYALAYA, BHOPAL	7.54	*2015-2019*