Ved Prakash Pathak

ML engineer | MLOps engineer | Data scientist
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OBJECTIVE

Passionate **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.

ACHIEVEMENTS & CERTIFICATIONS

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

PROJECTS

Computer Vision

Leverage YOLO for object detection and OpenCV, a leading computer vision library. Built projects in food classification (computer vision) and tackled malaria cell image detection, showcasing both breadth and depth in this field.

MLOps

In my MLOps journey, I've honed my expertise by seamlessly integrating Apache Airflow, TFX, Kubeflow, Vertex AI, Amazon SageMaker, MLFlow, GitHub Actions, Jenkins, and Google Cloud Build into a cohesive framework for ML pipeline development and deployment. Through projects ranging from loan status prediction with TFX on Google Cloud to disaster tweet analysis using NLP models like BERT and LSTM, I've demonstrated proficiency in data preprocessing, model training, and workflow orchestration. Leveraging these technologies, I've navigated complex datasets such as California housing data, constructing end-to-end pipelines that deliver actionable insights and deploy scalable solutions. My dedication to effective communication and problem-solving has ensured successful collaboration across teams, while my mastery of version control systems and cloud-native development practices has facilitated streamlined workflows and accelerated deployment cycles, cementing my role as a versatile and impactful contributor in the field of MLOps

NLP

In this project, I delved into Natural Language Processing (NLP) methods to analyze disaster-related tweets, specifically focusing on the paraphrase detection task. Paraphrase detection involves determining whether two distinct text segments convey equivalent meanings. This task finds applications across diverse domains such as machine translation, plagiarism detection, information extraction, and summarization. Paraphrase detection techniques are typically categorized into two primary classes: similarity-based methods and classification methods. By exploring these methodologies, I aimed to enhance understanding of the textual nuances within disaster tweets, contributing to more effective disaster response and information dissemination.

SKILLS

Category	Tools/Frameworks
Programming Languages	Python
Deep Learning Frameworks	TensorFlow, TensorFlow Lite
Machine Learning Libraries	Scikit-learn, XGBoost
Cloud Platforms	GCP, AWS, Azure
MLOps Tools	Apache Airflow, TFX, Kubeflow, Vertex AI, Sagemaker, MLFlow, Github actions, Jenkins, Cloud Build
Web Frameworks	Streamlit, FastAPI, Flask
Data Visualization Libraries	Matplotlib, Seaborn, Plotly
Data Science Libraries	Numpy, Pandas
ETL Pipelines	Apache Spark

EDUCATION

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