VED PRAKASH PATHAK

Machine Learning Engg | AI Developer

LinkedIn GitHub +91-8817011092 vp.ved.vpp@gmail.com Portfolio Website Google Developer Profile

OBJECTIVE

To leverage my expertise in machine learning and artificial intelligence to contribute to innovative projects, driving advancements in technology and solving complex real-world problems. Passionate about exploring emerging methodologies and frameworks, I aim to collaborate with a dynamic team, where I can apply my skills to develop impactful solutions and propel organizational growth in the ML and AI domain.

EXPERIENCE

FREELANCE AI DEVELOPER & MACHINE LEARNING ENGINEER

Self-Employed **04/2023-**

- Versatile Freelance AI Developer & Machine Learning Engineer proficient in Python, specializing in Natural Language Processing (NLP), Computer Vision, and Generative AI.
- Developing expertise in developing chat-based applications and implementing cutting-edge RAG-based recommendation systems.
- Demonstrated ability to leverage advanced AI techniques to solve complex problems and deliver innovative solutions.

PROJECT HIGHLIGHTS

RAG BASED OPENAI CHATBOT DEPLOYED ON WORDPRESS

Worked on the end-to-end development of a highly customizable Rag Based OpenAI Chatbot plugin for WordPress, optimizing user engagement with personalized responses through intelligent data retrieval and real-time, dynamic interactions enabled by a robust tech stack including FASTAPI, HTML, CSS, PHP, WebSocket, and JavaScript functionalities.

MCQ-GENERATOR

Developed an interactive RAG-based MCQ generator, achieving 90% accuracy in content extraction. Architected scalable solution handling voluminous uploads and generating quizzes tailored to user demands.

IMAGE-GENERATION-WITH-GANS

Developed concurrent training of GANs, achieving 98% convergence within 9 hours spanning 100 epochs. Engineered Generator to produce realistic fashion images with g_loss of 0.312. Calibrated Discriminator for precise classification with d_loss of 1.1025. Demonstrated relentless improvement with Generator achieving 10% progression per epoch, consistently delivering high-quality samples.

EDUCATION

RAJIV GANDHI PROUDYOGIK VISHWAVIDYALAYA, BHOPAL **2015-2019**

MECHANICAL ENGINEERING

Achieved distinction with Honours with CGPA score of 7.54.

LANGUAGES

- Python
- HTML & CSS
- JavaScript

FRAMEWORKS

- TensorFlow
- Scikit-Learn
- Pytorch
- Matplotlib
- FastApi
- Docker
- Kubernetes
- Git | Github
- **AWS |GCP |AZURE**

CERTIFICATES

- Production Machine Learning Systems
- Feature Engineering
- ML Pipelines on Google Cloud
- Computer Vision Fundamentals with Google Cloud
- Machine Learning Operations (MLOps) with Vertex AI: Manage Features
- TensorFlow on Google Cloud