Sumit Dhakad

Machine Learning Engineer
AiEnsured Pvt Ltd

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Summary

Experienced AI professional with 2+ years of hands-on AI/ML expertise. Proficient in NLP, Generative AI, Computer Vision. Skilled in building and maintaining efficient AI pipelines. Seeking challenging projects to contribute to innovative teams and drive impactful results.

Experience

AIEnsured Pvt Ltd | Noida
June 2022 - Present

Machine Learning Engineer

➢ Building and maintaining scalable, accurate, and adaptable Machine Learning pipelines, encompassing data preparation, model development and training, deployment, monitoring, and collaboration.
➢ Enhanced model performance by 10-15% with streamlined deployment.
➢ Generated synthetic structural data with 85% accuracy, reducing costs and improving efficiency.
➢ Developing Retrieval Augmented Generation (RAG) pipelines for document-based question answering using various large language models.
➢ Created interactive PowerBI/Tableau dashboards to provide efficient and user-friendly data insights, driving improved decision-making.

Hynix Intermedia
March 2022 - May 2022

Machine Learning Intern

➢ Delivered effective support on live projects, demonstrating strong problem-solving abilities and contributing to successful project outcomes.
➢ Leveraged Machine Learning and Deep Learning to create innovative and state-of-the-art projects.

Projects

Sentiment Analysis of Articles
➢ Developed sentiment analysis for article categorization, Built an LSTM model achieving 78% accuracy in sentiment classification of articles and fine-tuned a pre-trained Transformer model, improving its sentiment analysis accuracy on articles by 85%
➢ Developed a Steamlit application for deployment.

Road Scenario Detection
➢ Successfully developed a robust road scenario object detection system using YOLO, OpenCV model, significantly improving road safety by accurately identifying and tracking vehicles and objects, with 85% precision and 87% recall in real time.
➢ Develop Streamlit app for Camera, Image and video

Multi Document Chatbot
➢ Developed information retrieval application, designed a RAG system using vector search embedding, LLama2-7b and Langchain.
➢ Build Streamlit/Gradio app and deployed on Hugging Face Hub for QnA.

Credit Risk Analysis
➢ Successfully developed End to End Pipeline with data Ingestion, Model building & Fine Tuning and Prediction. With 95% confidence which consumer repay the credit amount.
➢ Developed a Flask application.

Technical Skills and Interests

Languages:- Python | Java | HTML
Libraries:- TensorFlow | PyTorch | Keras | Scikit-Learn | Pandas | NumPy | OpenCV | Langchain | MLFlow | FastAPI.
Dev & BI Tools:- Git & GitHub | Docker | Power-BI | Tableau | Hugging Face | Kubernetes | CICD
Cloud Platforms:- AWS (EC2, ECS, S3, Sagemaker)
Specialized Fields:- Deep Learning | NLP | Generative AI | Image Processing & Computer Vision.

Education

B.Tech in Computer Science (Specialization in Data Science)
Aug 2018 - May 2022

ITM University, Gwalior, INDIA

Publications and Certifications

➢ ISRO – Python Programming *Jan 2021*
➢ Nelumbus Educare – Machine Learning *Nov 2020 - Dec 2020*
➢ Nelumbus Educare – Deep Learning *June 2021 - July 2021*