

Mouleeshwaran V

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Summary

Machine Learning and Generative AI Developer with 3 years of experience in designing, developing, and deploying AI-driven solutions. Strong expertise in deep learning, NLP, and computer vision. Proficient in Python, TensorFlow, PyTorch, and LLM fine-tuning. Passionate about building scalable AI applications and optimizing ML models for performance and efficiency.

Technical Skills

- **Programming Languages:** Python, SQL
- **Machine Learning:** Supervised & Unsupervised Learning, Model Optimization, Feature Engineering
- **Deep Learning:** TensorFlow, PyTorch, Keras
- **Natural Language Processing (NLP):** LLMs, Transformers, Hugging Face, BERT, GPT, Tokenization
- **Generative AI:** Azure AI Models (OpenAI Service, Fine-tuned LLMs, Custom GPT)
- **Computer Vision:** OpenCV, YOLO, Image Segmentation, Object Detection
- **Cloud Services :** Azure (Databricks, Storage Account, Key Vault, Function App, Azure ML Studio)

Experience

Acuvate Software | Hyderabad

Machine Learning & Generative AI Developer | 05/2022 - Present

- Implemented computer vision models for object detection and image segmentation, improving accuracy by 20%.
- Designed and deployed ML pipelines using Databricks and Azure ML, reducing model training time by 30%.
- Built generative AI applications using Azure OpenAI Service for text and image generation.
- Collaborated with cross-functional teams to integrate AI solutions into enterprise products.

Projects

1. NYC Muffler & Idle | Role: ML Developer

- Developed a system to detect vehicle license plates that exceed noise thresholds.
- Utilized Azure Cognitive Services for license plate detection and the YOLO algorithm for vehicle type classification.
- Performed image preprocessing with OpenCV and conducted API testing using Postman.

2. Niagara Bottling | Role: ML Developer

- Automated email sorting and incident allocation using ML models trained with Azure AutoML.
- Extracted data from Oracle Service Cloud and registered datasets using the Python SDK.
- Deployed the model, scheduled jobs, and generated dynamic client responses with OpenAI.
- Implemented MLOps for continuous deployment, ensuring seamless updates and performance monitoring of ML models in production.

3. Data Bot with OpenAI API and LangChain | Role: Gen AI Developer

- Created a chatbot with OpenAI API, building a prompt to convert human questions into SQL queries.
- Integrated the LangChain framework to transform tabular data into a readable format.
- Used Python's Flask to create a backend and deployed it in an Azure Function App to process user input.
- Converted input into SQL queries using OpenAI API prompts and retrieved responses as text based on queried data.

Education

Bachelor of Engineering (CSE)

St. Joseph's College of Engineering, Chennai, Anna University

June 2014 - May 2021 | CGPA: 62%