

Preetham Nagelli

Software Engineer (AI-ML)

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Summary

AI ML Engineer with expertise in applying Machine Learning techniques to drive business growth. Skilled in crafting and deploying high performance models utilizing Python and deep learning.

Work Experience

Aifa Labs
Sr Software Engineer (AI-ML)

Feb 2025 - Mar2025
Hyderabad

- Developed a Re-rank Retrieval-Augmented Generation (RAG) system using Azure Cosmos DB MongoDB vCore as vector database and FastAPI backend.

Quintessential Design
Data Engineer

Jan 2022 - Sep 2024
Hyderabad

- Utilized data visualization techniques to identify patterns and anomalies, leading to the discovery of unique patterns boosting business value by 15%.
- Reduced high-dimensional sensor data using dimensionality reduction techniques like UMAP, t-SNE, and PCA, improving model training efficiency by 25%.
- Built and trained machine learning models, including Random Forest, XGBoost, Decision Trees, LSTMs, and CNNs, achieving 97% accuracy in data classification.
- Deployed trained machine learning models into production environments on AWS, enabling real-time predictions for Activity recognition, Gait recognition.

Medplus
Design Engineer

Jul 21 - Jan 22
Hyderabad

- Custom developed python, micropython to develop firmware for the Esp 32 and Ras pi board, enabling real-time data processing and transmission.

Amazon
Tron associate

Aug 20 - Mar 21
Hyderabad

- Analyzed video footage of stowing activities in fulfillment centers to detect exceptions and improve automation processes.

Education

Malla Reddy Engineering College
Mechanical Engineering
9.67

2015-2019
BTech

Technical Skills

MCP Server	Langchain	Gen AI	Pytorch	Tensorflow
Opencv	Pandas	Scikit Learn	Matplotlib	Git
Fastapi	Flask	AWS	Azure	Docker