Rajpit G

AI ML Developer, 10+ years experience
Hyderabad, India
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7+ years of working experience as a ML Engineer with expertise in Large Language Model (LLM) mastery, research, algorithm development, model implementation, and validation. Possess a deep understanding and hands-on experience with advanced LLM architectures including Transformers, GPT variants, and BERT. Proficient in deploying advanced pre-trained models such as GPT-4 and BERT, and fine-tuning LLMs for specialized tasks with a proven track record of success. Having experience in training LLMs from scratch, addressing complex data handling, computational challenges, and advanced hyperparameter optimization. Leadership in research and algorithm development, ensuring fairness and interpretability in machine learning algorithms. Proficient in overseeing data management and performing advanced data preprocessing techniques. Skilled in developing scalable and efficient machine learning models using advanced frameworks, along with overseeing thorough validation processes to ensure model integrity. Expertise in model optimization for enhanced computational efficiency and accuracy, collaborating with infrastructure teams for large-scale model deployment. Proficient in converting research algorithms into production-level code and ensuring seamless integration into platforms. Experience in cloud-based deployment with a focus on maintainability and robustness, working closely with DevOps teams. Proactive in developing tools for continuous model performance monitoring and addressing performance issues based on metrics and new data. Effective communication and collaboration skills, engaging with various teams and stakeholders to integrate machine learning solutions into broader operations.

INDUSTRIES: Software and Platforms

TECHNICAL SKILLS

• Python	10 years
• Java	10 years
• AI ML Frameworks	10 years
• SQL Automation	8 years
• LLM Integration	8 years
• Cloud	8 years
• GCP	5 years

SOFT SKILLS

Team management

PROJECT DETAILS

• ADAS for Lane Detection

Project Description: Developed an Advanced Driver Assistance System (ADAS) for lane detection.
Responsibilities: Achieved over 95 percentage accuracy in detecting lane markings under various environmental conditions. Reduced false positive rates to less than 1 percentage through fine tuning of computer vision algorithms. Implemented real-time processing with a response time of less than 100 milliseconds, ensuring prompt assistance to drivers. Designed for edge device implementation.
Technologies: OpenCV, TensorFlow, Python, Embedded Systems, FastAPI
Industry: Software and Platforms

• Predictive Maintenance System

Project Description: Created a predictive maintenance system to preemptively identify equipment failures.
Responsibilities: Achieved 90% predictive accuracy for equipment failures. Reduced downtime by 30% and maintenance costs by 20% through proactive maintenance. Utilized time series data from equipment sensors to train LSTM models for failure prediction.
Technologies: Python, TensorFlow, Keras, AWS, Time Series Analysis
Industry: Software and Platforms

• Customer Segmentation and Churn

Project Description: Developed models for customer segmentation and churn prediction
Responsibilities: Segmented customers with over 85% accuracy. Achieved 80 Percentage accuracy in churn prediction. Increased customer retention rates by 15 Percentage and improved customer lifetime value (CLV) by 20 Percentage
Technologies: Python, Scikit-learn, Pandas, SQL
Industry: Software and Platforms

EMPLOYMENT HISTORY

• Llm

Description: Designed and implemented scalable AI/ML solutions with a focus on Large Language Models (LLMs) such as GPT, BERT, and LLaMA, including fine-tuning, optimization, and deployment for production. Developed AI infrastructure pipelines for training and deploying ML models in cloud environments (AWS, Azure) ensuring robustness, scalability, and performance. Collaborated with DevOps teams to support deployment, monitoring, and automation of ML models, integrating with MLOps practices. Optimized ML models for efficiency by applying advanced techniques in hyperparameter tuning, GPU utilization, and inference performance. Built end-to-end data pipelines, covering ingestion, preprocessing, storage, and feature engineering for various AI/ML use cases. Led and mentored project teams in research and development of AI solutions including ADAS (lane detection), predictive maintenance, fraud detection, and sentiment analysis. Converted research algorithms into production-grade code, enabling real-world deployment across multiple client projects. Ensured ethical AI practices by incorporating fairness, interpretability, and compliance considerations in ML model development. Researched and integrated the latest advancements in AI/ML frameworks, libraries, and cloud-based tools to continuously drive innovation. Created documentation for ML solutions, model training processes, and deployment workflows for long-term maintainability.

EDUCATION

• Masters degree in Masters of Engineering from DTU 2013 - 2015

LANGUAGES

• English - native

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