Rahul Mehta

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Professional Summary

Innovative **AI/ML Engineer** with 5+ years of experience in building, training, and deploying **scalable machine learning systems** across NLP, computer vision, and predictive analytics. Skilled in **Python, TensorFlow, PyTorch, and cloud AI platforms**, with a strong track record of delivering AI solutions that drive measurable business impact.

Core Skills

- **Programming:** Python, C++, Java, SQL, R

- **ML/AI Techniques:** Deep Learning, NLP, Computer Vision, Reinforcement Learning, Time Series Forecasting

- **Frameworks:** TensorFlow, PyTorch, Scikit-learn, Keras, Hugging Face, OpenCV

- **MLOps:** Docker, Kubernetes, MLflow, FastAPI, Airflow, CI/CD

- **Data Tools:** Pandas, NumPy, Spark, Dask

- **Cloud Platforms:** AWS SageMaker, GCP Vertex AI, Azure ML

- **Other Tools:** Git, Tableau, Prometheus

Professional Experience

AI/ML Engineer | Google Cloud AI | Mountain View, CA

📅 Jan 2021 – Present

- Designed and deployed **real-time recommendation system** that increased customer engagement by **27%**.

- Built **NLP models** (BERT, GPT-based) for automated document summarization, reducing manual processing time by **40%**.

- Optimized **computer vision pipelines** for defect detection, cutting false negatives by **18%**.

- Deployed scalable ML pipelines using **Kubernetes + MLflow**, enabling CI/CD for AI services.

- Mentored junior ML engineers on best practices in **model deployment and monitoring**.

Machine Learning Engineer | Airbnb | San Francisco, CA

📅 Jul 2017 – Dec 2020

- Developed **fraud detection model** for transactions, achieving **96% accuracy** and reducing fraud-related losses by **$2M annually**.

- Implemented **personalized search ranking models** that improved booking conversion by **15%**.

- Automated **feature engineering pipelines** using PySpark, reducing data preparation time from **3 days to 6 hours**.

- Worked with data engineers to integrate **streaming data pipelines** for real-time ML inference.

Education

🎓 **Master of Science in Computer Science (AI/ML Specialization)**
Stanford University, 2017

🎓 **Bachelor of Technology in Computer Engineering**
Indian Institute of Technology (IIT) Delhi, 2015

Projects

- **Conversational AI Chatbot:** Developed a chatbot using **GPT + RAG (Retrieval-Augmented Generation)**, integrated with a knowledge base for enterprise support.

- **Medical Imaging Classification:** Created CNN-based models to detect lung diseases from X-rays with **92% accuracy**.

- **Demand Forecasting System:** Built a time-series forecasting model with LSTMs, improving accuracy of inventory predictions by **20%**.

Certifications

- AWS Certified Machine Learning – Specialty

- TensorFlow Developer Certificate

- DeepLearning.AI NLP Specialization (Coursera)