

- **AI/ML Engineer with 3+ years of experience delivering enterprise-grade machine learning solutions in healthcare, insurance, and research. Skilled in LLMs, Generative AI, computer vision, and MLOps, with achievements including boosting model accuracy to 93%+, cutting deployment cycles from weeks to days, and driving multimillion-dollar cost savings through fraud prevention. Experienced in building cloud-native ML platforms (AWS, Databricks, Kubernetes), deploying production APIs, and scaling AI systems for business impact.**
- **Technical Skills:** -
Programming Languages: Python, SQL, Java, R, TypeScript, JavaScript
ML/AI Frameworks & Libraries: PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face, LangChain, LlamaIndex, OpenCV
ML / AI Techniques & Evaluation: RAG, LSTM, BERT, GPT, CNN/RNN, Word2Vec, GloVe, Anomaly Detection, Prompt Engineering, BLEU, ROUGE, METEOR
Cloud & DevOps: AWS (SageMaker, EC2, Bedrock, EKS), Docker, Kubernetes, Jenkins, CI/CD, Databricks, Azure
Databases & Data Engineering: PostgreSQL, Snowflake, MySQL, FAISS, ChromaDB, Pinecone, ETL Pipelines, Hadoop, Spark
Visualization & BI: Tableau, Power BI, Matplotlib, Pandas, NumPy
Web & APIs: FastAPI, Flask, Django, Spring Boot, Nest.js, RESTful APIs, WebSockets, React, Angular, OpenAI API
Development Methodologies: Agile, Scrum, CRISP-DM, Prototyping

WORK EXPERIENCE

UnitedHealth Group

Jan 2024 – Present

AI Engineer

- Built AI-driven **claims adjudication platform** with BERT, increasing claim accuracy **+28%** and reducing manual review effort **-40%**.
- Developed **fraud detection pipeline** using Gradient Boosting + anomaly detection, preventing **\$3.2M+ fraud annually** with **93% precision**.
- Automated **HIPAA-compliant MLOps workflows** on AWS SageMaker & EKS, cutting model deployment cycles from **3 weeks → 5 days**.
- Deployed **OCR-based EHR ingestion** with OpenCV + AWS Textract, achieving **99.5% accuracy** and reducing latency **-35%**.
- Delivered **predictive cost-forecasting models** (+22% accuracy) and **interactive Power BI dashboards** for risk monitoring.

Intilt

May 2021-May 2023

AI Engineer

- Introduced **MSBeyond**, an AI-enabled insurance platform managing **50K+ policies**, automating end-to-end workflows.
- Enhanced claims automation using **OCR + NLP models**, reducing settlement cycles **-38%** and improving fraud detection accuracy to **92%**.
- Delivered **policy recommendation engine** (XGBoost/Gradient Boosting), driving **+20% cross-sell conversions**.
- Designed **microservices architecture** with FastAPI + AWS ECS, scaling workloads with **99.9% uptime**.
- Consolidated **PostgreSQL data warehouse**, reducing ETL latency **-45%**, and built real-time KPI dashboards for executives.

PROJECTS

Sign Language Conversion Application:

- Developed a real-time CNN-LSTM translator **achieving 98% accuracy on 50+ ASL signs**, processing video at 25+ FPS.
- Integrated **sign-to-text, 3D avatar rendering, and TTS modules**, improving accessibility for **500+ users**.

EquityResearchTool:

- Automated financial data ingestion and analytics with Python + Yahoo Finance API, generating risk/return metrics (Volatility, Sharpe, Max Drawdown).
- Produced **LLM-driven research reports** with commentary + visualizations, exported as timestamped Markdown.

EDUCATION

- **Master of Science in Computer Science, Texas Tech University** | GPA: 3.66/4.0 | 2023-2025
- **Bachelor of Engineering in Computer Science and Engineering, Parul University, Gujarat** | GPA: 3.25/4.0 | 2019-2023

CERTIFICATIONS

- AWS Certified AI Practitioner, **AWS, 2025**
- Amazon Bedrock Getting Started with Generative AI, **Coursera, 2025**
- Master Generative AI: Professional level LLM application development, **Euron, 2025**
- AI Extern, **AT&T, 2024**