

Jasweeer Naidu Tadikonda

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Summary

AI/ML Engineer with over 4 years of experience delivering advanced machine learning solutions in fraud detection, NLP, and healthcare analytics, achieving up to 25% performance improvements. Skilled in Python, TensorFlow, PyTorch, and Azure for model development and MLOps, with expertise in predictive analytics and Large Language Models (LLMs). M.S. in Computer Science (3.9 GPA, Class of 2025) with AI-focused mentorship experience. Committed to driving innovation in data-driven applications through technical excellence and collaboration.

Skills

Languages: Python, Java, C, SQL

Machine Learning and AI: Supervised/Unsupervised Learning, Deep Learning (CNNs, RNNs, LSTMs, GANs), NLP, Computer Vision, Predictive Analytics, Statistical Analysis, Reinforcement Learning, Large Language Models (LLMs)

Frameworks and Technologies: TensorFlow, PyTorch, Scikit-learn, Keras, Pandas, NumPy, Hugging Face Transformers, Spark, Hadoop, RestAPIs, Data Structures & Algorithms, FastAPI

Tools: AWS (SageMaker, Lambda, EC2), Azure (Machine Learning, Data Factory, Cognitive Services, Databricks), GCP, Kafka, Docker, Kubernetes, Git, Jenkins, Jupyter Notebook, MySQL, MongoDB, CI/CD, MLFlow

Data Engineering: ETL Pipelines, Data Ingestion, Big Data Processing, Feature Engineering, Model Training, Model Development & Deployment

Professional Skills: Algorithm Optimization, Data-Driven Decision Making, Agile Methodologies, Technical Mentorship, Cross-Functional Collaboration

Work Experience

Northern Arizona University, Flagstaff, AZ, USA

Jan 2025 - Present

LLM Teaching Assistant, Computer Science

- Mentored students on Large Language Models (LLMs) and AI algorithms, enhancing understanding of NLP and model optimization.
- Curated and preprocessed public datasets for AI/ML projects, improving data quality and project relevance by 15%.
- Guided students in implementing machine learning models, troubleshooting technical issues to ensure successful outcomes.

Infosys Ltd, Hyderabad, India

June 2023 - Dec 2023

AI Engineer

- Developed machine learning models using Python, TensorFlow, and Azure ML, improving predictive analytics for customer behavior by 25%.
- Built deep learning models (CNNs, RNNs) for NLP and computer vision, reducing inference time by 30% via hyperparameter tuning.
- Designed ETL pipelines using Pandas, PySpark, and Azure Databricks with Delta Lake, cutting data preprocessing time by 40% for real-time applications.
- Collaborated with software engineers to integrate AI models into production via RESTful APIs, boosting system scalability by 20%.
- Enhanced data workflows and MLOps pipelines using Azure and AWS services, improving model deployment efficiency and reliability.

Tata Consultancy Services, Hyderabad, India

August 2020 - June 2023

Junior AI Engineer

- Implemented ML algorithms with PyTorch and Scikit-learn, boosting fraud detection accuracy by 18% using predictive analytics.
- Engineered features for 100K+ record datasets with SQL and Spark, improving model training efficiency by 25%.
- Deployed AI models on AWS and GCP, optimizing costs by 15% and ensuring 99% uptime via MLOps (Jenkins, Git).

Smart Bridge in Collaboration with IBM, Hyderabad, India

Jan 2020 - July 2020

AI Engineering Intern

- Developed ML models using Python and TensorFlow for retail IoT, deploying CNN-based Smart People Counter in 10+ locations.
- Optimized data pipelines for large datasets, improving accuracy by 20% for real-time analytics.

- Collaborated with teams to integrate solutions, driving adoption by 15+ retail managers.

Education

Northern Arizona University, Flagstaff, USA

M.S. in Computer Science (3.9 GPA)

2024–2025

Relevant Project: *Intelligent Learning Assistant: Restricting AI Guidance via Prompt Injection Detection*

Gudlavalleru Engineering College, Gudlavalleru, India

B.Tech in Computer Science and Engineering (9.1 GPA)

2016–2020

Relevant Projects: *Securing the Data using Image Steganography and Encryption Techniques, Implementing Bus Tracking System*

Projects

- **Real-Time Fraud Detection Engine**(Python, Scikit-learn, TensorFlow, AWS Lambda, Apache Kafka)
 - Achieved 95% accuracy with anomaly detection, reducing false positives by 30%.
- **NLP-Powered Legal Document Analyzer**(Python, SpaCy, BERT, Hugging Face, Docker)
 - Attained 90% precision in clause extraction, speeding up processing by 40%.
- **Personalized Healthcare Recommendation System**(Python, TensorFlow, Pandas, Azure ML)
 - Improved patient satisfaction by 25% with collaborative filtering on 1M+ records.

Certificates

- IBM AI Engineering Professional Certificate
- Python for Data Science
- Machine Learning with Python
- Deep Learning with Pytorch
- Deep Learning with keras and Tensorflow

Awards

- On the Spot Award, TCS (Client Appreciation)
- Applause Award, TCS
- Star of the Month Award, TCS