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# Jasweer Naidu Tadikonda

AI/ML Engineer

Portfolio: Jasweer-Tadikonda.dev
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## SUMMARY

AI/ML Engineer with around 5 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

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| Programming Languages | Python, Java, SQL, C++ |
| Machine Learning & AI | Regression, Classification, Clustering, Artificial Intelligence, Natural Language Processing (NLP), Large Language Models (BERT, GPT), Neural Networks (CNN, RNN, LSTM), Hyperparameter Tuning, Predictive Analytics, Statistical Analysis |
| Deep Learning Frameworks | TensorFlow, PyTorch, Keras, Hugging Face Transformers |
| MLOps Engineering | MLFlow, FastAPI, Docker, Kubernetes, Jupyter Notebook, Google Colab, RestAPI's, Git |
| Data Engineering | Pandas, NumPy, Apache Airflow, Apache Spark, Kafka, Hadoop, MongoDB, NoSQL, SQL, ETL Pipelines, Azure DataBricks |
| Data Analytics | Plotly, Steamlit, Matplotlib, Seaborn |
| Cloud Platforms | AWS (S3, Lambda, SageMaker), Azure (Azure DataBricks, OpenAI Studio), |

## EXPERIENCE

**Teaching Assistant** **Jan 2025 - May 2025**
*Northern Arizona University* *Flagstaff, AZ*
- 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 15Guided students in implementing machine learning models, troubleshooting technical issues to ensure successful outcomes.

**AI Engineer** **Jun 2023 - Dec 2023**
*Infosys Ltd* *Hyderabad, India*
- Spearheaded development of a Churn Prediction System with integrated sentiment analysis using RNN, BiLSTM, and BERT on Azure Databricks and Delta Lake.
- Designed and optimized ETL pipelines with PySpark, Pandas, and Azure services, reducing preprocessing time by 40%.
- Improved predictive analytics for customer behavior by 25% through advanced model training and hyperparameter tuning.
- Implemented AI solutions across Azure and AWS, integrating via REST APIs for 20% higher scalability
- Orchestrated MLOps workflows with MLflow, CI/CD, and Azure Machine Learning for automated model lifecycle management.

**Java Developer - Junior AI Engineer** **Aug 2020 - Jun 2023**
*Tata Consultancy Serivces* *Hyderabad, India*
- Delivered a Fraud Detection System improving detection accuracy by 18% using PyTorch, Scikit-learn, and predictive analytics.
- Engineered optimized features for datasets with 100K+ records using SQL and Spark, improving training efficiency by 25%.
- Managed cloud deployment on AWS using MLOps (MLflow, Jenkins, Git), reducing costs by 15% while maintaining 99% uptime.
- Developed business logic, transaction processing, and API integrations for Core Banking Applications.
- Resolved critical software defects, boosting system stability by 15
- Delivered new feature enhancements for transaction and account management modules in line with evolving business needs.

**AI Engineer Intern** **Jan 2020 - July 2020**
*Smart Bridge in Collaboration with IBM* *Hyderabad, India*
- Created ML models for retail using Python and TensorFlow, deploying CNN-based Smart People Counters to 10+ locations.
- Refined large-scale data pipelines, improving analytics accuracy by 20
- Collaborated with teams to integrate solutions, driving adoption by 15+ retail managers.

## PROJECTS

**Intelligent Learning Assistant: Restricting AI Guidance via Prompt Injection Detection**
- Built an NLP-based Intelligent Learning Assistant using BERT and Transformers to guide 200+ students through stepwise learning workflows, improving task accuracy by 35%.
- Integrated prompt injection detection and educator feedback loops, increasing system integrity by 30% and enhancing learning outcome evaluation by 40%.

**NYC Taxi Trip Duration Prediction – ML Engineering Case Study**
- Built an end-to-end ML pipeline on 10M+ NYC taxi rides using PySpark, with feature engineering, Ridge Regression, and MLflow experiment tracking
- Deployed a real-time prediction web app with FastAPI, MLflow model serving, and Docker containerization.

## CERTIFICATIONS

**IBM AI Engineering Professional Certificate** April 2025
**Deep Learning with keras and Tensorflow** March 2025
**Deep Learning with Pytorch** March 2025

## EDUCATION

**Master of Science in Computer Science,** *Northern Arizona University* Jan 2024 - May 2025
**Bachelor of Technology in Computer Science,** *Jawaharlal Nehru Technological University* Jun 2016 - Sep 2020