

Jainul Trivedi

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Education

Southern Methodist University 05/2026
Master of Science, Computer Science (Award: Lyle Deans Graduate Scholarship) GPA: 3.74/4.00

Gujarat Technological University 05/2024
Bachelor of Engineering, Computer Science and Engineering (AI/ML) GPA: 3.78/4.00

Coursework: Artificial Intelligence, Machine Learning, Deep Learning, Data Structures and Algorithms, Data Mining, Statistics and probability, Big Data, Database Management Systems, Natural Language Processing, Cloud Computing

Certifications: Oracle Cloud Infrastructure 2025 Certified Data Science Professional, Oracle Cloud Infrastructure 2025 Certified Generative AI Professional, Data Science Masters (Jain University—1-year certification course)

Work Experience

Teaching assistant - Algorithm Engineering, Artificial Intelligence (Southern Methodist University) 08/2025- Present

- Assisted in teaching advanced concepts in algorithms, artificial intelligence (agentic AI), and data-driven problem solving.
- Guided students on assignments and projects involving Python, R, and SQL for AI applications and algo implementation.

Research Assistant - GenAI (Southern Methodist University) 08/2025 – 12/2025

- Maintained and enhanced ChatSSRN, a GenAI-powered research assistant leveraging HPC and NLP to efficiently index and retrieve research abstracts.
- Integrated 2024-2025 datasets, improving model accuracy, freshness, and relevance of academic literature recommendations.

Data Science Intern (Maxgen Technologies Pvt. Ltd.) 10/2023 - 04/2024

- Developed Python scripts for data analysis, ensuring timely and accurate project deliverables.
- Applied NLP techniques and data science methods to support advanced analytics projects.

Projects

ATLAS - Algorithmic Trading with LLM-Augmented Signal Synthesis 12/2025 - Present

- Built ATLAS, an end-to-end AI trading platform integrating FinBERT LLM sentiment (740 articles), RAG-based evidence retrieval, and 3 ML models (XGBoost, LightGBM, PyTorch LSTM) across 54 engineered features, achieving 0.817 AUC with real-time signal generation.
- Deployed full-stack MLOps pipeline with FastAPI, Streamlit, MLflow tracking, and automated \$100K live paper trading across 25 tickers.

Phishing Website Detection using Machine Learning 08/2025

- Developed an end-to-end ML pipeline for phishing website detection with automated preprocessing, drift monitoring, and optimized classification models.
- Deployed as a FastAPI microservice on AWS with Docker & CI/CD, enabling scalable, real-time protection against malicious websites.

Research and Publications

- **AI assistant for people with low SES (socioeconomic status) using Federated Learning.** Developing an AI assistant to profile SES while ensuring privacy.
 - **Technical Articles related to Data science and AI (Medium)** - <https://medium.com/@jainultrivedi55555>
 - [A comprehensive Study on Machine Learning and Deep Learning Models in web traffic forecasting](#)—Archives of Computational Methods in Engineering, Springer
 - [Well Temperature and Pressure Profiling using Machine Learning](#)—Stanford University Conference
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Skills

Programming & Querying: Python, SQL, R programming, Git

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Exploratory Data Analysis (EDA), Statistical Analysis

Machine Learning & Deep Learning: Supervised & Unsupervised Learning, Feature Engineering, Model Evaluation, Hyperparameter Tuning, scikit-learn, Deep Learning (TensorFlow / PyTorch), Transformers

Big Data & Data Engineering: ETL Pipelines, Apache Spark, Kafka, Airflow, SQL/NoSQL Databases

Cloud & MLOps: AWS, Azure, Docker, MLflow, CI/CD

Generative AI & NLP: LLMs (GPT, LLaMA), Prompt Engineering, RAG, Fine-Tuning, HuggingFace

Extracurricular Activities

Volunteer: Youth United Council of India (2023-2024), Tare Zameen Foundation (2023), Hamari Pehchan NGO (2023)

University Involvement: Artificial Intelligence club at SMU, Statistics and Data science club, Badminton Not Bad

Hobbies: Coding, Badminton, Cricket, Fitness, Reading books