SREE TEJA NADELLA

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Education

- **University of California, San Diego** — California, USA
  Master's of Science in Computer Science — *Sep 2024 - Dec 2025 (Expected)*
  Relavent Coursework: Design & Analysis of Algorithms, AI Agents, Statistical Natural Language Processing, Recommender Systems, Graduate Network Systems, Deep Learning, Fairnes and Bias in ML

- **National Institute of Technology, Durgapur** — West Bengal, India
  Bachelor's of Technology in Computer Science; CGPA: 3.97/4.00 — *Dec 2020 - May 2024*
  Relavent Coursework: Distributed Systems, Databases, Object Oriented Programming, Data Structures & Algorithms, Software Engineering, Computer Organization & Architecture, Artificial Intelligence, ML, Soft Computing, Signals & Systems

Skills

- **Languages & Libraries**: Python (PyTorch, TensorFlow, sklearn, NumPy, Pandas), C, C++, Go, Java, JavaScript, SQL
- **Natural Language Processing (NLP)**: LLM, SLM, Transformers, LangChain, Fine-tuning, LoRA, RAG, Vector Databases
- **Data Analytics & Web Dev**: Spark, Tableau, Looker, React, Fast API, Node.js, Flask, REST APIs, GraphQL
- **Cloud & DevOps**: AWS, GCP, Docker, Kubernetes, MLflow, CI/CD (GitHub Actions, Jenkins), Git, Linux

Experience

- **Resero Analytics** |***LLMs, Data Pipelines, RAG*** — Remote, USA
  AI Engineer — *June 2025 - Sept 2025*
  - Designed and deployed a **chat application** using the **Google GenAI SDK**, enabling RAG- and tool-use–based query answering on proprietary data, reducing manual lookup time by **40%**.
  - Engineered a robust data pipeline with **LlamaIndex** and **Python** to process **1000+ PDFs**, storing outputs in both **vector databases** and **relational databases** based on data type, leveraging **AWS S3** for intermediate storage.
  - Implemented modular architecture with **Pydantic classes**, decoupling pipeline stages and improving code reusability.

- **Center for Applied Internet Data Analysis** |***LLMs, Data Pipelines*** — San Diego, USA
  Volunteer - Gen AI Track — *May 2025 - June 2025*
  - Developed a pipeline integrating **Large Language Models** to dynamically update dataset descriptions by synthesizing context from multiple sources including **internet text and PDFs**, improving metadata accuracy.

- **PepsiCo** |***Causal Inference, Delivery Optimizations*** — Telangana, India
  Global IT Intern - Data Science Track — *Jan 2024 - July 2024*
  - Built and deployed **delivery time estimation** models using **XGBoost** and **TensorFlow**, processing data from **5+** sources via **Azure ML**, reducing estimation variance by **3%** and improving logistics reliability.
  - Conducted **causal inference** on **1.3M+** records stored in **PySpark**, analyzing with **pandas** and **scikit-learn**, and applying **SHAP values** to assess the impact of pricing on sales.

- **National Institute of Technology, Durgapur** |***HealthCare AI, Classification*** — Durgapur, India
  Research Assistant — *Jan 2023 - Dec 2023*
  - Built a privacy-preserved **federated learning** framework for remote hemiplegia diagnosis, incorporating **GAN**-based data augmentation and **differential privacy**, achieving **93%** accuracy with improved training efficiency.
  - Optimized models using the **Whale Optimization Algorithm** and **inverse wavelet** decomposition on IMU data, reducing convergence time while boosting predictive accuracy.

Projects

- **Evaluating Reasoning Capabilities of Language Models in Chess [Report]** |*UCSD*
  - Employed small language models (1.5B & 7B) and reinforcement learning (GRPO) for chess reasoning, using **VeRL** to design reward mechanisms and state representations, and leveraging Ollama for optimized inference.
  - Evaluated fine-tuned and frontier LLMs against Stockfish, identifying limitations in complex strategic reasoning domains.
- **Course projects** | *Full Stack Blog Application, Fine-Tuning LLMs and RAG for Disease Prediction*

Publications

- **FedGait: Adaptive Optimization with Federated Learning for Gait Severity Gradation Based on IMU,** IEEE, 5th Asian Conference on Innovation in Technology (ASIANCON), (2025)
- **PrivLet: Differential Privacy and Inverse Wavelet Decomposition Framework for Secure and Optimized Hemiplegic Gait Classification,** Elsevier, Biomedical Signal Processing and Control (2024)