

SREE TEJA NADELLA

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EDUCATION

- **University of California, San Diego** California, USA
Master's of Science in Computer Science; CGPA: 4.00/4.00 *Sep 2024 - 2026 (Expected)*
Relevant Coursework: Statistical Natural Language Processing, AI Agents, Recommender Systems, Fairness-bias and transparency in Machine Learning, Design & Analysis of Algorithms
- **National Institute of Technology, Durgapur** West Bengal, India
Bachelor's of Technology in Computer Science; CGPA: 4.00/4.00 *Dec 2020 - May 2024*
Relevant Coursework: Distributed Systems, Databases, Object Oriented Programming, Data Structures & Algorithms, Software Engineering, Computer Organization & Architecture, Artificial Intelligence, ML, Soft Computing, Signals & Systems

SKILLS

- **Programming Languages:** Python, C, C++, JavaScript, Typescript, Go, Rust, SQL, HTML, CSS
- **ML Libraries:** PyTorch, TensorFlow, Transformers, Scikit-Learn, Pandas, Seaborn, NumPy, OpenCV, LightGBM, MLflow
- **Cloud & DevOps:** AWS, GCP, Terraform, Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins), Git, Linux
- **Big Data & Analytics:** Apache Spark, Databricks, MongoDB, Apache Kafka, Tableau, Looker, SQL (MySQL, PostgreSQL)
- **Web Technologies:** React, Node.js, Flask, Django, Express.js, FastAPI, REST APIs, GraphQL, Next.js, Redis, WebSockets

EXPERIENCE

- **PepsiCo** | *python, tensorflow, sklearn, pyspark, matplotlib, seaborn* Telangana, India
Global IT Intern *Jan 2024 - July 2024*
 - Conducted **causal inference** on a dataset of over **1.3 million** records, spanning regions, retailers, and stores, utilizing **SHAP** values and elasticity metrics to assess the impact of price changes on demand. Led data preprocessing, feature engineering, and model selection, achieving a **9%** improvement in pricing strategy efficiency.
 - Partnered with stakeholders to develop robust **delivery time estimation** models, successfully integrating data from **5+** data sources using distributed processing. Streamlined operations, reducing delivery time estimation variance by **3%**, which contributed to a more reliable logistics process and improved customer satisfaction.
- **Indian Institute of Technology, Indore** | *python, pytorch, matplotlib, sklearn* Remote - India
Summer Research *May 2023 - June 2023*
 - Explored various neural network **architectures for regression**, including **Radial Basis Function Networks**, conducting a comprehensive examination that improved model performance by **9%** and coordinated closely with the research team to modify the neural network architecture which demonstrated a **2%** impact on reducing mean square error.

PROJECTS

- **Tomato: Online Food Ordering Application** | *MongoDB, Express.js, React.js, Node.js (MERN Stack)*
 - Developed a full-stack online food ordering platform with an interactive React.js frontend for browsing and ordering food, along with an admin dashboard for managing menu items with real-time updates in MongoDB.
 - Optimized API performance and handled concurrent operations efficiently using Node.js's non-blocking I/O model.
- **AI based Image Caption Generation Application** | *react.js, flask, pytorch, python, PostgreSQL, Redis, GCP*
 - Developed an AI-powered image captioning application enabling users to upload images and receive AI-generated descriptions, featuring a responsive UI, user authentication, and smooth animations for an enhanced user experience.
 - Integrated **Google Cloud Platform (GCP)** for efficient image storage and retrieval, ensuring scalability and reliability.
- **Medical Disease Prediction Using Patient Narratives** | *python, pytorch, Hugging Face Transformers, LORA*
 - Fine-tuned the **paraphrase-MiniLM** model from scratch to predict diseases using patient health narratives.
 - Compared performance with other fine-tuned transformer models such as **BERT, RoBERTa, BioBERT**, and **DeBERTa** on the **Haodf** dataset.
- **Course projects** | *Full Stack Blog Application, (Retrieval-Augmented Generation) RAG System Using Langchain*

PUBLICATIONS & PATENTS

- S. Adhikary, S.Varalasetty, **S.Nadella**, et al."PrivLet: Differential Privacy and Inverse Wavelet Decomposition Framework for Secure and Optimized Hemiplegic Gait Classification" Biomed. Signal Process. Control. (2024)
- S. Adhikary, **S.Nadella**, et al., "FedPlegia: Hemiplegia Severity Gradation by Evolutionary Optimization and Privacy Preserved Federated Learning" ACM Transactions on Computing for Healthcare (in-review)
- "A. Srivastava et al., "A Comparative Study on Effect of Activation Function Placement in Neural Network Architecture for Regression Problems," 2023 IEEE 7th Conference on Information and Communication Technology (CICT), Jabalpur, India, 2023, pp. 1-6,
- "Patent: Virtual Reality Kinetic Mapping: AI-Powered Realistic Physical Interaction in VR"(waiting for grant)
- "Patent: AI based Lung Node Sinusitis Detection"(waiting for grant)