Sai Sree Gudivada

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EDUCATION

- **McGill University, Montreal, QC**- MEng in Electrical and Computer Eng.   **Aug 2025**
- **National Institute of Technology Raipur, India**- BTech in Electronics and Telecommunication Eng.   **Jun 2020**

TECHNICAL SKILLS

- **Telecom specific:** Auto CAD, Network Architecture of 2G, 3G, 4G, 5G, Open RAN, Site Engineering.
- **Programming Languages:** Python, MATLAB, Bash and C.
- **Machine Learning & Data Analysis:** LLMs, Scikit-learn, Pandas, NumPy, Tensorflow, Chain of Thought prompting, FAISS, Sentence Transformers, and Statistical Analysis.

WORK EXPERIENCE

AI Telecom Engineer Intern   Jan 2025 - Mar 2025
Latence Technologies Inc, Montreal, Quebec

- Researched and devised approaches for building a QoS Enabler rApp for Ericsson Intelligent Automation Platform (EIAP) on O-RAN, focusing on data collection from RAN PM counters and device-based QoS Agents via TWAMP.
- Provided research insights to inform the generation of actionable KPIs for Service Management and Orchestration (SMO) and rApp-driven orchestration, with consideration for future machine learning enhancements.
- Improved the Latencetech mobile application on a weekly basis by recommending additional network parameters for latency monitoring, rectifying cell ID configuration mismatches, and improving overall QoS tracking capabilities.

Machine Learning Intern   May 2024 - Jul 2024
Ericsson, Montreal, Quebec

- Developed and automated the Trace Compass Extended Assistant (TCXA) platform, leveraging LLMs via GPT-4All and Mistral 7B to convert natural language prompts into accurate DSL XML files through Chain of Thought prompting, ensuring seamless integration with Trace Compass.
- Refined prompt matching accuracy by leveraging FAISS and Sentence Transformers.
- Created a user-friendly interface for TCXA using Streamlit, incorporating session management, feedback loops, and download options, significantly enhancing user interaction and experience.
- Publicized a YouTube video for the Eclipse Trace Compass channel, effectively showcasing the LLM-driven functionalities and innovations of the TCXA platform.

Integration Engineer   Aug 2020 - Jul 2023
Ericsson India Private Limited

- Deployed advanced 5G technologies for Digital Nasional Berhad (DNB) in Malaysia, preparing detailed TSSRs for over 200 sites, adapting strategies based on stakeholder input, and using in-house tools to ensure efficiency.
- Mentored over 20 new employees in Site Engineering activities, boosting project productivity by 25%, and coordinated approvals with ASP and RF/IE QC, contributing to a 15% increase in project delivery speed by authoring Site Design Documents for over 50 sites.
- Led Antenna/Radio designs for 660 sites, achieving a 20% capacity boost and 15% speed increase while collaborating with Ericsson to accelerate project deliveries by 30% and enhance operational efficiency.

ACADEMIC PROJECTS

Blockage Prediction in mmWave/THz Systems: Meta-Learning Based Transformer Model   Sep 2024 - Aug 2025

- Implemented a meta-learning framework using transformer architecture to predict link blockages in mmWave/THz systems, reducing data requirements while improving reliability.
- Modeled a novel approach enabling rapid adaptation to new environments with minimal training data, achieving 92.33% accuracy using only 2% of data.
- Integrated multi-head self-attention with sliding window processing to capture long-range dependencies, outperforming LSTM approaches by 6% in accuracy.

Reddit Post Origin Prediction Using Bernoulli Naïve Bayes   Mar 2024

- Engineered a Bernoulli Naïve Bayes classifier and Scikit-learn model to predict Reddit post origins with 85% accuracy through k-fold validation, statistical analysis, custom feature selection, and optimization.

Breast Cancer Ionosphere Prediction with Optimized Logistic Regression   Feb 2024

- Enhanced logistic regression model for Breast Cancer and Ionosphere datasets, achieving 95% and 90% accuracy, respectively, using custom feature selection.

LEADERSHIP EXPERIENCE & COMMUNITY INVOLVEMENT

- Volunteered for Project Connect by UNICEF, partnered with Ericsson to support Giga, and helped connect more than 200 schools globally using Artificial Intelligence as a key technology.
- Head Coordinator and Volunteer of Shaurya – NIT Raipur, a prominent Sports fest in India, for two years.