

# Sai Sree Gudivada

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## EDUCATION

### Master of Engineering in Electrical and Computer Engineering

Aug 2023 - May 2025

- McGill University, Montreal, QC
- Coursework: Machine Learning, Wireless Comm., Decision Making for Sustainable Eng, Digital Comm.

### Bachelor of Technology in Electronics and Telecommunication Engineering

Jun 2016 - Jun 2020

- National Institute of Technology Raipur, India
- Coursework: Communication systems, Telecom switching and Cellular systems, Wireless Communication.

## SKILLS

- **Telecom specific:** Auto CAD, Network Architecture of 2G, 3G, 4G, 5G, Open RAN.
- **Programming Languages:** Python, MATLAB, and C.
- **Machine Learning & Data Analysis:** Data preprocessing, Data analysis with Python (Scikit-learn, Pandas, NumPy), and skilled in LLMs, Chain of Thought prompting, FAISS, and Sentence Transformers.

## WORK EXPERIENCE

### Latence Technologies Inc, Montreal, Quebec

Jan 2025- Mar 2025

#### AI Telecom Engineer Intern

- Assisted in developing a Quality of Service (QoS) Enabler rApp for the Ericsson Intelligent Automation Platform (EIAP) on O-RAN to collect and aggregate real-time QoS data from RAN PM counters and device-based QoS Agents using the TWAMP protocol.
- Utilized real-time and historical QoS data to derive actionable KPIs that drive Service Management and Orchestration (SMO) and rApp-driven QoS orchestrations, optimizing latency, throughput, and reliability through Machine Learning-based latency prediction workflows.
- Enhanced the Latencetech mobile application by recommending additional network parameters for latency monitoring, rectifying cell ID configuration mismatches, and improving overall QoS tracking capabilities.

### Ericsson, Montreal, Quebec

May 2024- Jul 2024

#### Machine Learning Intern

- 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.
- Optimized prompt matching accuracy by leveraging FAISS and Sentence Transformers.
- Designed a user-friendly interface for TCXA using Streamlit, incorporating session management, feedback loops, and download options, significantly enhancing user interaction and experience.
- Produced a [YouTube](#) video for the Eclipse Trace Compass channel, effectively communicating the TCXA platform's LLM-driven functionalities and innovations.

### Ericsson India Private Limited

Aug 2020- Jul 2023

#### Integration Engineer

- 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.

## PROJECTS

Nov 2025- Designed a Transformer-based meta-learning framework for mmWave and THz systems to predict link blockages with high reliability, reducing data requirements and improving prediction efficiency.

Mar 2024 - Developed 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.

## LEADERSHIP EXPERIENCE & EXTRACURRICULAR

- 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.