

# BANDI SAI SATYA RAKESH

ssrakesh.bandi@gmail.com ♦ [linkedin](#) ♦ [Github](#) ♦ +91 9492929825

## EDUCATION

National Institute Of Technology Raipur, India

2019 - 2023

Bachelor of Technology,Electrical Engineering

## EXPERIENCE

Technical Lead

Oct 2023 -Present

Data Scientist **HCL TECH**

Chennai, India

- Developed an automated tool for Automatic Test Equipment (ATE) testcases code generation using Generative AI and Large Language Models (LLMs), streamlining the testing process and fine-tuning it for custom libraries and API calls.
- Designed and implemented a user-friendly interface for the code generation model, deployed web applications on Azure cloud services for scalability, and created a private network to enhance data protection and compliance; utilized Azure Virtual Desktop for secure operations.
- Enhanced model accuracy by fine-tuning OpenAI's GPT-4 and developed a Chroma DB vector database for Retrieval-Augmented Generation (RAG) For API Finder, achieving a 96.5 score on my test set using the Code BLEU metric.

Machine Learning Intern

June 2023 - July 2023

Swabhav Techlabs

- Worked on a project involving answering **data-driven questions** to **increase revenue** for an exhibition and provide insights for the business. Made decisions based on insights extracted from data analysis using statistical techniques ,Used **Numpy**, Pandas, **Matplotlib**, Seaborn and **Sci-kit libraries** for Data Analysis

## PROJECTS

**BhagawadhGita GPT:** Fine-tuned a large language model on the Bhagavad Gita using parameter-efficient fine-tuning (PEFT) techniques, including LoRA and 8-bit quantization. Achieved a BLEU score of 2, demonstrating improved model performance and efficiency in handling specialized text. ([Project Link](#))

**Wind power forecasting using machine learning:** Wind power forecasting specialist with expertise in machine learning. Creates precise models for wind power prediction, excelling in data analysis, feature engineering, and model optimization. Demonstrated success in implementing advanced machine learning solutions for renewable energy. ([Project Link](#))

## SKILLS

Programming Languages

C++,C,Python,Data Structures and algorithms,Stl

Technical Skills

Machine learning , Artificial Intelligence,Deep Learning  
natural language processing (NLP),Prompt Engineering,RAG  
Large Language Model(LLM),Data Analysis, Generative AI

Daatabase & Frameworks  
Tools

Pytorch,Sql,Numpy,Pandas,scikit-learn  
JMP,Git/Github,Hugging face

## ACHEIVMENTS & RESPONSIBILITY

- Courses:Internshala Training in Machine Learning [Certificate](#) ,**Databricks** :Genrative AI Fundementals,Large Language Model:Application Through Production,SAS platform Courses
- Solved 500+ DSA Problems on : [GeeksForGeeks](#), [Leetcode](#),Secured 98.02 percentile in JEE Mains and 100+ Marks in JEE Advanced
- Community Facilitator at Placewit Raipur,Volunteer: Avartan Club,Tech Fest at NIT Raipur.