# Satyam Mishra

+91-9550739128 | https://satyammishra.vercel.app | satyam.work.only@gmail.com | https://github.com/bedead |
http://www.linkedin.com/in/theaiguysatyam

**Red color for: Keywords**

**Green color for: Objectives**

## Experience

**ML Engineer Intern | Al-Zira Technology**                                                    **Oct 2024 - Dec 2024**
- Developing and fine tuning LDM (Latent Diffusion Model) and LLM (Large Language Model) for specific use cases.
- Safeguarding Large Language Models (LLMs) from prompt jailbreaking, injection attacks, and other adversarial techniques.
- Conducted thorough evaluations of custom LLM outputs using tailored Q&A pairs to assess response accuracy and consistency.

**ML Engineer Intern | InnoByte Services**                                                    **Sep 2024 - Oct 2024**
- Analyzed customer data from a telecommunications company, including demographics, services subscribed, and churn status, using the Telco Customer Churn dataset, which included over 7,000 customer records.
- We identified a strong positive correlation (~0.65) between TotalCharges and MonthlyCharges, leading to the recommendation to monitor high-spending customers for potential churn risks, reducing the churn rate by 15%.

**Technical Content Writer | Nettv4u | Topic research, fact verification, Content Writing**      **Nov 2023 - Dec 2023**
- Authored 120+ well-researched, high-engagement articles in two months, spanning topics from entertainment to technology.
- Managed an average workload of 5 articles per day, maintaining productivity and delivering content excellence while consistently meeting tight deadlines.
- Worked 35+ hours weekly, maintaining a high output rate and achieving a 98% on-time delivery record.

## EDUCATION

**Vellore Institute of Technology, Amaravati**

B.TECH in Computer Science and Engineering (AI and ML)

GPA: 8.24 | Nov 2021-May 2025

## CERTIFICATIONS

Google Cloud Digital Leader (Foundation Certificates)

## SKILLS

**Programming Languages**: Java, Python, Javascript
**Web Technologies and frameworks**: React.js, Next.js, Flask, FastAPI
**Databases**: SQL, Firebase
**Cloud Platforms**: Google Cloud
**Tools**: Vs Code, Git. Github, Figma, Docker
**AI/ML Libraries:** Pandas, Matplotlib, Scikit-Learn, Pytorch, Transformers, LangChain, agno, RAG, Fine Tuning, LLMs, LDMs
**Soft Skills**: Flexible, Continuous learning, Listener, Open-mindedness
**Spoken Languages**: English (proficient), Hindi (proficient)

## PROJECTS

1. **ResearchGPT**
   **LangChain, GoogleGenAI, RAG, LLM, Unstructured Lib**
   - An AI-powered assistant designed to help researchers and students efficiently process and extract insights from academic papers and PDF documents.

2. **ama.ai (Autonomous Mail Assistant AI) - *Under Development***
   **GoogleGenAI, GmailAPI, LangChain, agno**
   - ama.ai (Autonomous Mail Assistant AI) is an intelligent system designed to completely handle your emails.
   - AI to read, categorize, prioritize, and respond to emails, ensuring efficient email management. Our goal is to reduce email overload and help users focus on important messages while automating routine tasks.

3. **PATENT - CLASSIFICATION OF LUNG CANCER USING DEEP LEARNING TECHNIQUES**
   **Tech Stack: YOLOv8, Image classification, Fine-tuning**
   - Engineered a lung cancer detection model leveraging YOLOv8 deep learning architecture, achieving an 83.8% top-1 accuracy rate by training on a publicly available dataset of over 5,000 images of lung scans.
   - Achieved a top-1 accuracy of 83.8% and a top-5 accuracy of 96.4% in distinguishing between patients with and without lung cancer.

4. **ConvoGen AI (Conversation LLM)**
   **Tech Stack: Python, Transformer, T5 model**
   - ConvoGen, a personalised chatbot leveraging natural language processing (NLP) models, simulating by 500 lifelike conversations of my style to reflect my preferences, interests, and personalities.
   - Trained the model over 200 epochs, achieving a minimal training loss of 0.0080, ensuring high accuracy and natural flow in responses.