

Abhidutta Mukund Giri

Summary

Motivated and innovative undergraduate engineering student with strong interdisciplinary research experience in AI/ML, sensor technologies, and data automation. Proven ability to lead collaborative projects and deliver impactful software solutions. Looking for opportunities to apply technical expertise and creative problem-solving skills in dynamic environments.

Experience

- Mar 2024 – **Co-founder, Researcher & Management Committee Member, Innotech Manipal, Manipal**
Present
 - Co-founded Manipal's first multidisciplinary research initiative, uniting students in biotechnology, computer science, IT, AI / ML, electronics and VLSI design.
 - Currently developing automation algorithms to manage and analyze complex cell data, enhancing data processing speed and providing detailed insights for transcription, genomics, and cell therapy.
- Dec 2024 – **Co-founder & AIML Engineer, Phantom Sense, Manipal**
Present
 - Developing machine learning algorithms for a software-based sensor emulator aimed at replacing redundant hardware sensors in critical industrial applications.
 - Contributed to optimizing sensor performance and reducing hardware costs through innovative software-driven solutions.

Education

- Jul 2023 – **Bachelor of Technology in Computer and Communication Engineering, Manipal Institute of Technology, Manipal**
Present
Expected Graduation: May 2027
- Jul 2021 – **High School Diploma, Canara Pre-University College, Mangalore**
Mar 2023

Technical Skills

Programming:	Python, C, C++, Java, R, HTML, CSS, JavaScript, Kotlin, C#
Libraries:	Pandas, NumPy, Scikit-learn, TensorFlow, Seaborn, Matplotlib, PyTorch, Keras
Software Engineering:	Object-Oriented Programming (OOP), Software Development, Version Control (Git & GitHub), Modular & Extensible System Design
AI & Machine Learning:	Large Language Models (LLMs), Fine-Tuning LLMs, Prompt Engineering, Neural Networks & Transformers, Machine Learning (ML) Fundamentals, Deep Learning Frameworks (TensorFlow, PyTorch), Model Optimization & Deployment
Data Processing & Analysis:	Data Preprocessing & Cleaning, Data Processing Pipelines, Handling Structured & Unstructured Data, Data Analysis & Visualization (Pandas, NumPy, Matplotlib)
Cloud & DevOps:	Cloud Computing (AWS, Azure), Containerization (Docker), Model Deployment in Cloud Environments, CI/CD for AI Workflows
Tool Integration & System Design:	Third-Party Tool Integration, Scientific Computing Libraries (NumPy), Error Handling & Logging
Research & Documentation:	Research Paper Analysis & Literature Review, Writing Technical Documentation, Open-Source Collaboration