SASHI PRITAM MANANDI ANAND

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EDUCATION

B.Tech | 2022-2026

Information Technology
Minor Specialization in Data Analytics
Department of IT
Manipal Institute of Technology
MAHE Bengaluru, Karnataka

TECHNICAL SKILLS

Languages:
- Python
- Java
- C
- SQL

Frameworks:
- FastAPI
- Next.js
- React
- Tailwind CSS
- Flutter

Technologies:
- LLMs
- Neo4j
- MongoDB
- Pandas, AI/ML pipelines
- MS Office

Concepts:
- OOPS
- DBMS
- Data Structures
- REST APIs

TOOLS

- VS Code
- Google Collab
- Microsoft Office Suite
- Jupyter
- Canva
- Android Studio

CAREER OBJECTIVE

Detail oriented team player with strong coding skills and organizational capabilities. I have an ability to handle multiple projects with passion by providing outstanding results with accuracy and consistency.

WORK EXPERIENCE

Corizo   Aug 2024 – Oct 2024
Generative AI Specialist Intern

- Developed and implemented innovative AI models, enhancing user interaction and optimizing performance across various applications.

Intel   Dec 2024–Feb 2025
Project Intern

- Evaluated Pré-built Retrieval-Augmented Generation pipeline on academic PDFs, analyzing retrieval and LLM response quality, while contributing to UI/UX discussions.

NTT DATA   May 2025–Aug 2025
Reseach and Developer Intern

Graph-Based RAG System

- Designed and developed a hybrid Retrieval-Augmented Generation (RAG) platform that integrates graph databases, semantic search, and LLMs for advanced enterprise knowledge management.
- Automated extraction and representation of entities/relationships from multi-format documents into a dynamic, query able knowledge graph (Neo4j), enabling multi-hop reasoning and visualization.
- Improved enterprise search accuracy and efficiency by delivering context-rich, relationship-driven answers, with modular architecture for scalable future enhancements.

AI Stock Market Assistant

- Built a voice-controlled web platform that leverages LLMs (Llama3) and real-time stock data (yfinance) to democratize financial insights for Indian retail investors.
- Engineered AI-powered query answering, automated price alerting with spam control, and personalized, risk-based investment guidance.
- Enhanced user engagement and platform value by reducing barriers to market intelligence with interactive, real-time analytics and hands-free access.

Prompt-to-API Generator

- Developed a natural language interface using FLAN-T5 that generates production-ready FastAPI backend code from plain English prompts, streamlining backend development for non-experts.
- Integrated an intuitive Next.js, React, Tailwind CSS (modern app frontend), generates React components for generated APIs, automated code generation, and download features to accelerate prototyping and reduce development costs.
- Enabled rapid API deployment and automation for hackathons, student projects, and startup use cases, with roadmap for auto-documentation and model extensibility.

CERTIFICATION

- Python for Data Science, AI & Development – IBM
- Object-Oriented Hierarchies in Java – LearnQuest
- Computer and Peripheral Hardware – Illinois Tech
- The Bits and Bytes of Computer Networking – Google
- Introduction to Software Engineering – IBM,
- Introduction to HTML, CSS, & JavaScript – IBM
- Introduction to Cloud Computing – IBM

SOFT SKILLS

- Fast Learner
- Team Collaboration
- Critical Thinking
- Communication Skills
- Digital Marketing
- Negotiation

LANGUAGE

- English
- Hindi
- Telugu
- Kannada

PUBLICATIONS

- Co-Authored a Chapter in **Analysis of various cyber security challenges, issues, and counter measures in military application**.
- Presented papers on **Analysis of Network Traffic Characteristic in Malicious and Begin Flows, Advanced Phishing Using Machine Learning** and **Traffic Volume Analysis and Reduction Strategies in Urban Environments** during the 2nd International conference on New Frontiers in Communication, Automation, Management and Security held during July 12th and 13th 2025 at Presidency University
- Presented a poster on **Balancing Security and Energy Efficiency for IoT Devices Using Hybrid Cryptographic Schemes Merging Traditional and Post-Quantum Cryptography** during the Indian Symposium on Computer Systems (IndoSys) at MIT-Bengaluru

PROJECTS

- **Pharma Supply Chain System:** A supply chain for the safe distribution of medicines using Blockchain and AI.
- **Smart Bag pack:** Designed and implemented a smart backpack integrating RFID technology with a Flutter-based mobile application for automated inventory tracking and real-time user notifications.
- **Intrusion Detection Hybrid:** Intrusion detection system (IDS) built using a hybrid model approach, combining both supervised and unsupervised techniques for enhanced accuracy and adaptability.
- **Email Phising Detection:** Developed an AI-driven system to enhance threat detection and response through advanced analytics and real-time automated interventions.
- **FastAPI Generator & Dashboard:** Developed a full-stack AI application that dynamically generates FastAPI endpoints from natural language prompts, integrates real-time Excel and MongoDB analytics, and provides interactive dashboards for API management and data visualization.
- **Spotify Song Genre Prediction:** Applied supervised and unsupervised machine learning techniques to classify Spotify songs by genre using audio feature data, improving automated music genre assignment accuracy.

RESPONSIBILITIES IN ACADEMICS

- **General Secretary, ACM Student Chapter:** Coordinated technical initiatives and member engagement.
- **Media Head, NSS:** Led media outreach and event coverage for social service activities.
- **Educator & Volunteer, VSO:** Taught underprivileged students and organized volunteer initiatives.
- **Vice Chair, MBOSC**: Assisted in organizing and managing club operations and events.
- **Vice President, Tech Fest 2025:** Oversaw planning and execution of the institute's major technical festival.
- **Editor-in-Chief, Avalokana (MIT-BLR's Official Magazine)**: Managed editorial team and content for the official campus publication.

HACKATHONS

- Winner, December **Schneider (HackNova)** Hackathon, hosted by Schneider Electric
  - Project: Developed a smart energy management solution using IoT sensors and real-time analytics, enabling optimized power consumption and automated fault detection for industrial environments.
- Participant, **HackNite Hackathon, organized by CodeBasis**
  - Project: Built a collaborative code-sharing platform with live editing and integrated issue tracking, streamlining teamwork and project management for remote developer groups.
- Participant, **HackSky Hackathon, conducted by Kaspersky**
  - Project: Created a cybersecurity dashboard that leverages machine learning for intrusion detection and real-time threat visualization, improving monitoring for enterprise networks.