Snehansh Nigam

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Education

VIT Bhopal University, Bhopal 2022 – 2026
B.Tech in Computer Science & Engineering, CGPA: 9.11
Ryan International School, CBSE 2021 – 2022
Intermediate XII (secondary)
Podar International School, CBSE 2019 – 2020
HighSchool X (secondary)

Technical Skills

- **Programming:** C++, Python
- **ML/AI:** Machine Learning, Deep Learning, NLP, Gen AI
- **Frameworks:** PyTorch, Scikit-Learn, LangChain, LangGraph, MCP
- **Data:** Jupyter, NumPy, Pandas, Matplotlib, Seaborn
- **Databases:** MySQL, PL/SQL

Work Experience

Sahana System Limited - AI/ML May 2025 – Aug 2025

- Developed and trained machine learning models using, TensorFlow, and scikit-learn, achieving 95% accuracy in supervised learning algorithms and improving model performance by 25% over baseline implementations
- Collaborated with cross-functional team of 5 engineers to optimize model deployment pipeline, reducing production deployment time from 3 days to 6 hours and ensuring 99% system uptime
- Implemented automated model monitoring and retraining workflows, reducing model drift by 25% and maintaining consistent performance across 6-month production deployment period

Projects

Cloneable Charm | LangChain, LangGraph GitHub Link

- Created an AI-powered platform that generates fully functional websites from user prompts, reducing manual development time by up to 70%
- Architected an agentic AI workflow utilizing LangChain, LangGraph, and open-source GPT models, enabling automated planning, architecture design, and incremental code generation
- Implemented a multi-stage pipeline with Planner, Architect, and Coder modules that manage feature breakdown, task delegation, file-specific coding instructions, supporting over 95% accuracy in generated outputs

DocTalk AI | HuggingFace Transformers, LangChain GitHub Link

- Engineered a web application enabling users to upload PDF documents and interactively ask context-aware questions, enhancing information retrieval efficiency by over 60%
- Integrated state-of-the-art NLP and large language models for context tracking and answer synthesis, maintaining 90% answer relevance from user feedback.

ShopLifting-Detection | OpenCV, XGBoost GitHub Link

- Constructed a multi-script pipeline (7+ modules) integrating OpenCV, CVZone, and XGBoost for live tracking, item pickup detection, and shoplifting alerts with $>$ 90% precision
- Designed a custom rack zone marking logic and object tracking mechanism across frames, improving event localization and minimizing incorrect alarms by 30%
- Led the end-to-end development of a shoplifting detection system using YOLOv8 pose estimation and XGBoost classification, enhancing retail security through real-time behavior monitoring

Achievements

- Selected as sole representative team from VIT Bhopal for Solve-A-Thon competition, outperforming 50+ inter-campus teams through demonstrated technical excellence and creative problem-solving