

SNEHANSH NIGAM

www.linkedin.com/in/snehanshnigam | P: +91 7021300629 | nigam.snehansh@gmail.com

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 Languages: C++, Python,
AI/ML & Data Science: Machine Learning, Deep Learning, NLP, Computer Vision, LLMs, Recommendation Systems, Feature Engineering, Model Optimization, Data Preprocessing, EDA Frameworks & Libraries: TensorFlow, PyTorch, Scikit-Learn, OpenCV, XGBoost, NLTK, Pandas, NumPy, Seaborn, Matplotlib
Databases & Tools: MySQL, PostgreSQL, MongoDB, PL/SQL, Jupyter Notebook

Work Experience

AI Intern – Sahana System Limited	May 25 – Aug 25
<ul style="list-style-type: none">Processed and cleaned 10,000+ structured/unstructured data entries across 3+ AI projects, reducing preprocessing time by 20% and accelerating pipeline readiness.Designed and deployed a real-time retail theft detection system using YOLOv8 (Computer Vision, Pose Estimation) + XGBoost (Behavior Classification), enhancing store security with >90% precision and reducing false positives by 30%.Built a multi-module pipeline (7+ integrated scripts) combining OpenCV, CVZone, and custom object tracking for rack zone marking, item pickup detection, and suspicious activity alerts.	

Projects

Fake News Detection NLTK, LSTM, TF-IDF, Python	February 24 – April 24
<ul style="list-style-type: none">Lead a team of 5 in the development of a web application for identifying the authenticity of news articlesScraped & preprocessed 50,000+ news articles, building a balanced datasetDesigned ML pipelines with TensorFlow, PyTorch, and Scikit-learn, boosting detection precision from 70% to 90%	
Smart Spend React, Node.js, PostgreSQL, Machine Learning	August 23 – November 23
<ul style="list-style-type: none">Directed a 4-member team to build a scalable finance tracking appDeployed 10+ backend services using Django & SQL, reducing system downtime by 35%Enhanced scalability by integrating Node.js + MongoDB, reducing API latency by 40%	
Shoplifting Detection OpenCV, YOLOv8, XGBoost, AI	
<ul style="list-style-type: none">Designed an AI-powered real-time theft detection system using pose estimation + behavior classificationEngineered 7+ integrated modules (tracking, zone marking, pickup detection), achieving >90% precision with a 30% false positive reductionDeployed XGBoost classifier on curated pose datasets, improving recall on suspicious activity detection	

Achievements

<ul style="list-style-type: none">Selected as the only team from VIT Bhopal for Solve-A-Thon Hackathon, competing against 50+ teams across VIT campusesEarned several certifications across different areas of technology and professional developmentSolved 600+ Data Structures & Algorithms (DSA) problems across multiple competitive programming platforms, strengthening problem-solving, algorithmic thinking, and coding efficiency.	
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Certifications

<ul style="list-style-type: none">Certified in Cloud Computing (NPTEL – IIT Madras) and Data Science Bootcamp, covering cloud infrastructure, distributed systems, data preprocessing, EDA, machine learning, and model deployment.	
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