

Khushneet Singh

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SUMMARY

Full-stack developer with experience in building AI-powered applications and scalable backend systems.

EDUCATION

B.Tech, CSE Cyber Security

Graduating May 2026

Lakshmi Narain College of Technology and Science, Bhopal, M.P

6.80 GPA

PROJECTS

Dart Multilingual Dependency

[📦 AutoLingo](#)

- Shipped a published Dart package - a zero-config CLI that scans Flutter apps for UI strings, auto-generates ARB files
- Flutter apps to go multilingual without touching application code(init → generate → translate)

RAG Ready AI Dataset Pipeline

[🐙 DataSanity](#)

- End-to-end tool that automates dataset preprocessing using LLMs.
- Engineered an AI pipeline for dataset cleaning, schema-aware synthetic data generation, and embedding-based vectorization to produce RAG-ready datasets.
- Integrated Exa semantic search to enrich incomplete data via real-time web results.

Network Vulnerability Scanner

[🐙 PiSentinel](#)

- Portable network scanner on Raspberry Pi Zero using Aircrack-ng for packet capture and traffic analysis.
- Configured monitor mode interfaces with hostapd for passive 802.11 frame sniffing, ARP spoofing and rogue device detection.
- Used Flask-WebSockets to stream live scan results, network topology, and CVE-matched vulnerabilities.

ACHIEVEMENTS & RESEARCH

SIH Grand Finalist

Sep 2024 - Oct 2024

- Led the development and hardware integration of the kiosk interface for the tourism assistance system.
- Built with Electron + React for tourist assistance and information delivery.
- Used MQTT protocol and REST API for real-time synchronization of content across Raspberry Pi powered kiosks.

Research Paper: AI-Enhanced Gunshot Detection System

[View Paper](#)

Co-authored a paper on FPGA-based AI gunshot detection integrating LoRaWAN for border surveillance. Explored direction-of-arrival estimation and real-time acoustic event analysis for security applications.

EXPERIENCE

Chief Mentor and Instructor

Jan 2023 - Mar 2024

AICTE Idea Lab

- Mentored student teams in IoT and Hardware projects at the institute's innovation lab.
- Provided guidance on IoT, Raspberry Pi integrations and networking concepts through hands-on workshops.

SKILLS

Programming Languages	Python, Java, JavaScript, Swift, Dart, PostgreSQL, pgvector
Frameworks & Libraries	FastAPI, Django REST Framework(DRF), React, Node.js, Next.js, Flutter, SwiftUI, LangChain, LangGraph, FAISS
Platform & DevTools	Git, Docker, Postman, Semantic Search(Exa), Raspberry Pi, XCode, REST APIs, Firebase, Supabase
Soft Skills	Problem Solving, Team Collaboration, Communication