# Nishant Patel

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## Summary

Computer Science undergraduate specializing in AI/ML with hands-on experience building full-stack web applications, Flask-based APIs, webhook-driven systems, and predictive models. Proficient in integrating LLMs and third-party APIs to build practical AI-powered tools. Strong foundation in data structures, databases, and backend development, with a focus on solving real-world problems through clean and deployable solutions.

## Education

**B.Tech in Computer Science & Engineering (AIML)** **2022 – 2026**
Gyan Ganga Institute of Technology and Sciences, Jabalpur
Percentage: **72.6%**

**Class 12th (CBSE)** **2020 – 2021**
Army Public School, Jabalpur
Percentage: **74%**

**Class 10th (CBSE)** **2018 – 2019**
Army Public School, Jabalpur
Percentage: **80.4%**

## Core Coursework

- Data Structures and Algorithms
- Database Management Systems
- Object-Oriented Programming
- Artificial Intelligence & Machine Learning

## Technical Skills

**Languages:** C++, Python, JavaScript (basics), SQL
**Backend:** Flask, REST APIs, Webhooks, Node.js (basics)
**Frontend:** HTML, CSS, React (basics)
**Databases:** MySQL, MongoDB, SQLite
**AI / LLM:** Groq API, LLaMA 3, Prompt Engineering, LLM Integration
**ML:** Regression, Classification, Feature Engineering, Model Evaluation
**Tools:** Git, GitHub, VS Code, Vercel, Render

## Projects

**Full-Stack Event Monitoring System (2025)** GitHub

- Built a real-time event monitoring system using **Flask, Webhooks, and GitHub Actions** to track CI/CD and repository events.
- Implemented asynchronous JSON payload processing to deliver instant notifications to external services.
- Reduced manual repository monitoring by automating validation and event-triggered workflows.

**Hospital OPD Waiting Time Prediction System (2025)** GitHub

- Developed a **regression-based ML model** to predict OPD waiting times using patient inflow and service rate data.
- Designed a web interface to visualize real-time wait estimates for improved patient transparency.
- Achieved lower prediction error compared to static scheduling using historical hospital data.

**DrowsGuard – Drowsiness Detection System** GitHub

- Built a real-time drowsiness detection system using computer vision to monitor driver alertness.
- Implemented eye aspect ratio detection to trigger alerts when signs of drowsiness are identified.

**Heart Disease Prediction Model (2024)** GitHub

- Created a classification model to identify early heart disease risk from high-dimensional medical datasets.
- Applied feature scaling, class imbalance handling, and model tuning to improve reliability.

## Extracurricular

**National Cadet Corps (NCC)** – Lance Corporal (LCPL); completed Army Attachment Camp and multiple CATC camps, demonstrating leadership, discipline, and teamwork under pressure.

**Sports** – Captain, college basketball team; secured 2nd place twice in inter-college tournaments. Achieved 3rd place at state level basketball competitions.

## Certifications

- Programming Essentials in C++ – Cisco Networking Academy
- Programming Essentials in Python – Cisco Networking Academy
- Database Programming with SQL – Oracle Academy