

Nikhil Jain

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Education

Vishwakarma Institute Of Technology, Pune

Bachelor of Technology in Computer Science (AIML)

2022-2026

CGPA-8.74

Experience

Flutter Head | Quark Club, College

October 2023

- Organized and managed Hackenvision, Quark's flagship event, which consisted of free speaker sessions and workshops on cyber security and CTF, and gave membership sessions worth 250 rupees each.
- Training coordinators with flutter skills by giving and monitoring tasks and conducting internal competitions.

AE900(Industry Project) | Dart, microcontroller, Syncfusion Library, Flutter, State-management | [Github](#) Jan 2025

- Flutter app for visualization and finding insights in real-time and saved CSV data sent through a blue-tooth module
- Bluetooth connection with **microcontroller(ESP32)** to receive real-time data, Plotting graphs with filters with **Syncfusion charts API**, handling state management using **provider** package in Flutter, Showing and alerting if the data exceeds the certain range input by the user, PDF generation, and download in Flutter

Projects

Custom STL | Templates, Move Semantics, Runtime Polymorphism, Virtual table/ pointers, RTTI, dynamic_cast, Placement

New, Memory Optimization, CMake | [Github](#)

April 2025

- Developed a custom STL-like C++ library implementing vector, map, set, stack, queue, and linked list from scratch using **templates** and **move semantics**.
- Demonstrated system-level concepts like manual memory management, runtime **polymorphism** (vtable/vptr), and **RTTI** (dynamic_cast, typeid).
- Built modular, testable components with **CMake** integration to showcase deep C++ internals and low-level performance control.

Geo-Clean | React JS, Node JS, Geospatial Mapping, Mongo DB Atlas, Google MyMaps, Cloud, AWS | [Github](#) Feb 2025

- Developed a full stack **geospatial complaint management system** for **Pune Municipal Corporation (PMC)**, mapping **15 wards** and Mukaddam areas using **KML data and GIS**.
- Implemented **CLIP** to verify user complaints via images and workers' responses.
- Implemented **polygon-based geolocation detection** using Shapely to automatically assign complaints to the correct Sanitary Inspector and Mukaddam based on latitude and longitude.
- Deployed the system using **AWS S3** (frontend), **EC2** (backend), **RDS** (relational data services), **MongoDB Atlas** (NoSQL), and **Cloudinary** (media storage), ensuring scalable and cloud-native architecture.

Healthify | AI, Python, Matplotlib, TensorFlow, Web Scrapping, Hugging Face, Langchain, Gemini API | [Github](#) April 2024

- Logistic regression, SVM, and Decision Tree are used to classify diabetes using the CSV dataset. CNN is applied to Image processing of eye retina images, through which diabetes can be predicted.
- Web scraping and collecting CSV data of the most frequently asked questions were used as a dataset for Chatbot.
- Python's UnstructuredURLLoader for scrapping web data, Hugging face for converting in embeddings, Vector database for storage and quick retrieval, Gemini API for forming Human readable answers.

Technical Skills

Languages: C++, Multithreading in C++, C, Python, SQL, Dart, Java(Basic), Javascript(Basic)

Artificial Intelligence(ML, DL): CNNs, Tensorflow, Keras, OpenCV, NLP, AI-powered chatbots, Data Preprocessing, Model Evaluation

Databases and Developer Tools: Firebase, MySQL, Git, GitHub

Frameworks and Libraries: Flutter, ReactJS, NodeJS, Flask, REST API, Auth2.0, Figma

Relevant Coursework: Data Structures, OOP, Database Management System, Operating System, Computer Networks

Cloud & DevOps: AWS(EC2, S3, Lambda), Docker, Kubernetes

Key Courses Taken

- IBM Full Stack Software Developer Professional Certificate
- Nvidia(Fundamentals of Deep Learning)