

Prince Kunal

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Computer Science undergraduate specialising in AI and ML, graduating in 2029. Enjoys data science and building machine learning models, builds full-stack web apps with the MERN stack and Next.js, and is learning Go to contribute to LFX open-source projects.

Education

B.Tech, Computer Science and Engineering (AI & ML) — Polaris School of Technology

2029

Class XII: 91% — Christ Academy

Class X (ICSE): 96% — Shantiniketan Trust School

Experience

Co-founder — Kollide

Sep 2026 – Present

- Co-founded Kollide, an app for meeting strangers or small groups in person for an activity they choose, such as cafe hopping, game nights, go-karting or pickleball.
- Built it with Next.js and Supabase, running most of the backend as Supabase Edge Functions, which respond faster than a backend hosted on Render's free tier.
- Runs entirely on free tiers and is built to handle about 10,000 users without paying for any service.
- Launched among friends with no marketing; 50+ users have signed up so far.

Student Researcher — Grand Valley State University (research collaboration)

Sep 2026 – Present

- Building programs that estimate the infarct percentage of heart tissue slices from images, in collaboration with students at Grand Valley State University, Michigan, USA.
- Developing four approaches to the measurement: colour-rule segmentation, a random forest, DINOv3 and U-Net.

Projects

PulseLoop

- Blood donation platform that predicts which registered donors are most likely to donate when a blood bank runs out of a blood group.
- Records each donor's last donation, next eligible date, location, age and blood group; donors earn points and see a local leaderboard.
- In an emergency, a machine learning model ranks candidate donors by blood group, distance from the hospital, age, gender, time since last donation, donation streak and response to past emergency calls.

Siege

PyRIT, Cedar

- AI red-teaming tool: an attacking agent tries to jailbreak a target agent, using PyRIT to plan attacks and analysing each response to pivot and adapt.
- When it finds a breach it writes a Cedar policy to close it, describes any jailbreak Cedar can't fix so it can be addressed, and generates a report.

Sherlock

Python, FastAPI, PostgreSQL, Redis, Next.js, Gemini

- Job referral tool that collects fresh openings, matches them to a resume, tailors a one-page resume for each role and drafts a short email to someone at the company.
- Nothing is sent without manual review; approved emails go out through the Gmail API with daily caps, opt-out handling and reply tracking.

College Management System

MongoDB, Express.js, React, Node.js

- MERN web app for live classes, attendance, timetables, online tests, notes, announcements, class group chats and event management.

Skills

Web: MongoDB, Express.js, React, Node.js, Next.js, Supabase, SQL

Other: Data Structures and Algorithms

Languages: Python, JavaScript, Go

AI security: PyRIT, Cedar

Machine learning: Machine Learning, Data Science, Random Forest, U-Net, DINOv3, Computer Vision

Achievements

- Competed in 5 hackathons: won a consolation prize in one and finished in the top 5 in three.