

SAUMYA PRAKASH NARAYAN

✉ saumyaprakashnarayan@gmail.com — 📞 9599211561 — Delhi, India 110036

🌐 LinkedIn — 🐙 GitHub

Education

National Institute of Technology (NIT), Delhi

Aug 2023 – May 2027

B.Tech in Computer Science and Engineering (CSE)

Delhi, India

Relevant Coursework

- Data Structures & Algorithms
- Programming
- Databases
- Software Engineering
- Object-Oriented
- Operating Systems
- Discrete Mathematics
- Artificial Intelligence

Projects

Crop Rotation Detection using Remote Sensing — *Python, Machine Learning, Satellite Imagery, GIS* 2025

- Developed a machine learning-based system to analyze crop rotation patterns using multi-temporal satellite imagery.
- Processed and analyzed **1,000+ satellite images** using vegetation indices such as NDVI and EVI.
- Trained classification models achieving up to **85% accuracy** in identifying crop rotation cycles across seasons.
- Integrated GIS-based spatial analysis for visualizing crop transitions, aiding agricultural monitoring and planning.

URL Shortener — *Next.js, TypeScript, Prisma, PostgreSQL*

2025

- Developed a full-stack URL platform used by **20+ users**, generating over **150+ short links**.
- Optimized redirection logic, reducing response latency by **40%**.
- Achieved a **95+ Lighthouse score** with responsive UI design.
- Implemented CI/CD on Vercel enabling zero-downtime deployments.

AI Interviewer — *React.js, Node.js, Gemini API*

2025

- Built an AI interview simulation tool generating **500+ technical and behavioral questions**.
- Used Gemini API to deliver personalized feedback improving interview readiness by **25%**.
- Implemented secure authentication and session handling for seamless user experience.
- Reduced API latency by **30%** through backend optimization and caching.

Skills

Frontend: HTML, CSS, JavaScript, React.js, Next.js, TypeScript, Tailwind CSS

Backend: Node.js, Express.js, WebSockets, Prisma, Django

Databases: MongoDB, MySQL, PostgreSQL, Redis

Programming Languages: C, C++, Java, Python

DevOps & Cloud: AWS, Docker, Docker Swarm, Kubernetes

Version Control: Git, GitHub

Testing: Jest, Mocha, Chai