

# SAUMYA PRAKASH NARAYAN

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## Education

**National Institute of Technology (NIT), Delhi**  
*B.Tech in Computer Science and Engineering (CSE)*

Aug 2023 – May 2027  
Delhi, India

## Relevant Coursework

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