

# Ashutosh Mahapatra

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## EDUCATION

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### Siksha 'O' Anusandhan University (ITER)

Bachelor of Technology in Computer Science Engineering

Nov 2021 – June 2025

CGPA: 9.8

## EXPERIENCE

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### Software Development Intern

Aveti Learning Pvt. Ltd.

Sep. 2022 – Present

Bhubaneswar, India

- Developed a cross-platform AI tutor bot mobile and web application using Flutter ensuring responsiveness; utilizing OpenAI GPT-4 model through Langchain as a backend service to enhance chatbot functionality.
- Implemented Question-Answering system using GPT-4 model, OpenAI embeddings; vector database.
- Orchestrated asynchronous RESTful APIs hosted on AWS EC2 with FastAPI and employed NGINX for scalable web server.
- Engineered micro-services architecture for translating and converting PowerPoint slides to videos within 2-month timeframe, leveraging Docker on server-less AWS Lambda functions with SQS reducing operating cost by 90%; Integrated DynamoDB and CloudWatch for request status and error detection.
- Optimized the deployment processes through CI/CD pipeline and achieved a 50% time reduction via automation with Github Actions.

### App Development Lead

Google Developer Student Club, ITER

Sep. 2023 – Present

Bhubaneswar, India

- Organised sessions on Flutter basics to more than 200 students and promoted best development practices

## PROJECTS

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### Passlock & PasslockDesktop | Python, Firebase, Kivy, PyInstaller, Github Actions

Jan. 2022 – June 2022

- Created a cross-platform password manager for mobile and desktop (Android, Linux, Windows).
- Leveraged Firebase real-time database for efficient CRUD operations.
- Implemented AES-256 encryption to ensure robust password security and decryption.
- Designed real-time password synchronization system across devices with 0ms latency.
- Optimized app load time by 30% implementing lazy loading technique.

### Plant Doctor | Flutter, Python, Flask, AWS, PyTorch

Feb 2023

- Collaborated with a team of four in a 36-hour hackathon to create a plant health monitoring solution.
- Designed and deployed ResNet ML model to achieve 90% accuracy rate in detecting plant diseases.
- Implemented offline (Raspberry Pi) and cloud-server data collection for 100% coverage.
- Integrated online marketplace for fertilizers and pesticides into the solution.

### JalDristi (Smart India Hackathon) | Flutter, Python, FastAPI, MySQL

Sep. 2023

- Spearheaded a team of 6 during a 24-hour hackathon, developing a crowdsourced water-monitoring system.
- Utilized Flutter and employed the Provider package for state management to craft a Neomorphic and Stateful UI.

## SKILLS

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**Languages:** Python, Java, C, Dart, HTML, CSS, Assembly

**Frameworks:** Flutter, Flask, FastAPI, Kivy, Langchain, PyInstaller, NumPy

**Tools and OS:** Linux, UNIX shell, Bash, Git, SSH, Docker, Github Actions, Nmap, Wireshark

**Cloud Platform:** Google Cloud Platform, Amazon Web Services

**Databases:** Oracle DB, PostgreSQL, MySQL

## ACHIEVEMENTS

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Rated 1593 (1762 Max) in [Codechef](#)

Rated 1570 in [Leetcode](#)

Rated 1232 (Max) Pupil in [Codeforces](#)

Secured **4th** rank in Capture The Flag contest conducted by NIT Rourkela