

# 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.
- Utilized LLMs, GPT-4 through Langchain as a backend service to enhance chatbot functionality.
- Implemented Q&A feature using OpenAI embeddings and vector database.
- Orchestrated RESTful APIs hosted on AWS EC2 with FastAPI and employed NGINX for scalable web app.
- Engineered a modular content creation software solution within a 2-month timeframe, leveraging Docker on AWS Lambda and DynamoDB for translating and converting PowerPoint slides to videos.
- Optimized the deployment processes and achieved a 50% time reduction via automation with Github Actions.

### App Development Lead

Google Developer Student Club, ITER

Sep. 2023 – Present

Bhubaneswar, India

- Development of cross-platform apps using Flutter and Google cloud platform

## 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.
- Achieved real-time password synchronization 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 team of 4 in 36-hour hackathon, to build a comprehensive plant health monitoring solution
- Detects plant diseases with 90% accuracy
- Collects data through offline (using RaspberryPi) and cloud-server mode for 100% data collection
- Integrated fertilizers and pesticides marketplace

### 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 Neumorphic and Stateful UI

## SKILLS

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

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

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

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

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

## ACHIEVEMENTS

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Rated 1593 in [Codechef](#)

Rated 1570 in [Leetcode](#)

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

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