Ashutosh Mahapatra

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EDUCATION

Siksha 'O' Anusandhan University (ITER)   Nov 2021 – June 2025
Bachelor of Technology in Computer Science Engineering   *CGPA: 9.8*

EXPERIENCE

Software Development Intern   Sep. 2022 – Present
Aveti Learning Pvt. Ltd.   *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 server .
- Engineered micro-services architecure within 2-month timeframe, leveraging Docker on AWS Lambda with SQS and DynamoDB for translating and converting PowerPoint slides to videos.
- Optimized the deployment processes through CI/CD pipeline and achieved a 50% time reduction via automation with Github Actions.

App Development Lead   Sep. 2023 – Present
Google Developer Student Club, ITER   *Bhubaneswar, India*
- Development of cross-platform apps using Flutter and Google cloud platform

PROJECTS

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 a team of four in a 36-hour hackathon to create a plant health monitoring solution.
- Achieved a 90% accuracy rate in detecting plant diseases.
- Implemented offline (Raspberry Pi) and cloud-server data collection for 100% coverage.
- Integrated a 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 Neumorphic and Stateful UI

SKILLS

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

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 Rourlkela