

PURNIMA SAHOO

Bhopal, Madhya Pradesh

☎ +91 8766432185 ✉ purnimajagganathsahoo@gmail.com 🔗 [linkedin.com/in/purnima-sahoo-61a566252/](https://www.linkedin.com/in/purnima-sahoo-61a566252/)

Education

VIT Bhopal University

Bachelor's in Computer Science and Engineering (B.Tech)

2022 – 2026

CGPA : 8.52

Experience

Software Development Extern | AlgoUniversity

July 2025 – Present

- Improved frontend responsiveness using HTML, CSS, and JavaScript, speeding up task completion by 30%.
- Created backend solutions with MySQL & SQLite for problem submissions and grading logic.
- Architecting a scalable cloud-native Online Judge Platform using Docker and AWS.
- Developing modular backend services for secure, sandboxed code execution with under 2s latency.
- Using Dockerization to isolate environments and improve system security.
- Deploying platform components on AWS for reliability and global accessibility.

Projects (github.com/Purnima2004)

SkillCraft | *ReactJS, Tailwind CSS, HuggingFace Transformers, GenAI*

Live Demo

- Built an AI-driven adaptive learning platform using LLMs for personalized content, increasing learning efficiency by 10%.
- Implemented Vite-based optimizations to significantly lower load times, resulting in better user interaction.
- Designed the platform to deliver personalized learning experiences tailored to each individual's capacity and pace.

Auto ML Solution | *Python, Joblib, Pillow, Seaborn, Streamlit*

Live Demo

- Developed an automated Machine Learning pipeline to test multiple algorithms, achieving 90% accuracy across datasets.
- Integrated key evaluation tools, including confusion matrices and performance metrics.
- Enabled instant dataset testing through simple algorithm selection and parameter configuration.

Extracurricular Activities

Amdocs Graduate Gen AI Hackathon | *Qualified Finalist*

Jan 2025 – Feb 2025

- Selected as one of the top finalists from 1,000+ participants across India for designing an innovative Gen AI solution.
- Built the frontend with React.js and Tailwind CSS, making it responsive, easy to use, and more engaging.

Research and Development Lead | *Linux Club, Cyber Warriors Club*

Jan 2024 – Dec 2024

- Led R&D projects with different teams, boosting audience engagement and improving efficiency by 4%.
- Leveraged data to plan content strategies and made team workflows smoother by regularly reviewing progress..

Smart India Hackathon | *Qualified Finalist*

Nov 2023 – Dec 2023

- Developed a fraudulent profile detection system for social media, securing grand finale selection from 500+ teams.
- Worked with the team to add ML detection algorithms, making results more accurate and reducing false positives.

Technical Skills

Programming Languages: C/C++, Python, JavaScript, Java (basic)

Web Development: HTML, CSS, React.js, Tailwind CSS, Django

Cloud: AWS, Docker, Firebase, Vercel, Railway

Dev Tools & Platforms: Git, GitHub, Jupyter Notebook, Firebase, Vercel, Railway, Streamlit

Software Engineering: Data Structure and Algorithms, Object-Oriented Programming

Additional: Linux (basics), Hugging face Transformers, Scikit-Learn , Pytorch, TensorFlow, Keras, Computer Vision

Achievements

- **Programming:** Achieved an overall rating of 1500+ on competitive coding platforms.
- **Coding Ninjas:** Recognized as a Top Performer in the "Introduction to C++" course with a 94% score.
- **IBM AI Engineering Specialization (Coursera):** Achieved an overall score of 88.02% in the certification.