PURNIMA SAHOO

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Education

VIT Bhopal University   **2022 − 2026**
Bachelor's in Computer Science and Engineering (B.Tech)   *CGPA : 8.52*

Experience

SWE Co-Op Intern | AlgoUniversity (YC S21)   *July 2025 − Sept 2025*

- Engineered an Online Judge web application for users to write, compile, and execute code with test case verdicts.
- Created responsive frontend using HTML5, CSS3, and JavaScript for optimal and seamless user experience.
- Integrated SQLite, with Django ORM providing efficient database queries and data validation between frontend forms and backend models. Implemented Docker for containerization and sandboxing, ensuring security and isolation.
- Deployed on AWS EC2 with Nginx reverse proxy and SSL termination for production, configuring Nginx to serve static files, handle SSL certificates, and proxy requests to Django backend.
- Integrated Google's Gemini AI model to provide intelligent code analysis, supporting 3 programming languages with comprehensive test case evaluation, achieving an average code submission latency of 5 seconds.
- Learned System Design from Senior Engineers from Google, Apple, Grab Singapore and Microsoft, prepared high level and low level design document.
- **Deployed Link**   **GitHub Link**

Projects

SkillCraft | *ReactJS, Tailwind CSS, HuggingFace Transformers, GenAI*   *Dec 2024 − Jan 2025*

- Designed an interactive user interface using React.js with Tailwind CSS, creating an intuitive and responsive learning experience that seamlessly integrates with AI-powered backend services.
- Employed lazy loading, optimized bundle size and ensured sub-100ms API response times for seamless experience.
- Architected a React 18 application with Vite and 15+ reusable components using component-based architecture.
- Selected as Finalist in prestigious Amdocs GenAI Hackathon 2024 among 1000+ participants nationwide.
- **Deployed Link**   **GitHub Link**

Auto ML Solution | *Python, Joblib, Pillow, Seaborn, Streamlit*   *Mar 2023 − Nov 2023*

- Engineered an Automate Machine Learning platform (AutoMl Solution) to eliminate manual algorithm rewriting, reducing model development time by 75% and streamlining machine learning workflows for production environments.
- Built preprocessing pipeline using Column Transformer and scikit-learn Pipeline classes, included PCA dimensionality reduction and created interactive visualization dashboard with Plotly/Seaborn for real-time model monitoring.
- Orchestrated 15+ algorithms, handling real-world data challenges, providing production ready model outputs.
- **Deployed Link**   **GitHub Link**

Technical Skills

Programming Languages: C/C++, Python, JavaScript, Java (basic)
Web Development: HTML, CSS, React.js, Tailwind CSS, Django, Sqlite, MySQL (Basic)
Dev Tools & Platforms: Git, GitHub, Jupyter Notebook, Firebase, Vercel, Railway, Streamlit
Additional: Linux(basics), Hugging face Transformers, Scikit-Learn, Pytorch, TensorFlow, Keras, Computer Vision

Extracurricular Activities

Research and Development Lead | *Linux Club, Cyber Warriors Club*   *Jan 2024 − Dec 2024*

- Spearheaded cross-functional R&D initiatives across 2+ diverse teams, demonstrating strategic leadership.
- Reviewed weekly performance reports and audience demographics to plan monthly content calendars, while conducting bi-weekly team meetings to track project milestones and resolve bottlenecks.

Smart India Hackathon | *University Qualified Finalist*   *Nov 2023 − Dec 2023*

- Built a fraudulent profile detection system for social media, securing pre-grand finale selection from 500+ teams.
- Collaborated effectively with a team of 4 members, applied robust machine learning algorithms that significantly improved detection accuracy and system performance.

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.