PURNIMA SAHOO

Bhopal, Madhya Pradesh

📞 +91 8766432185 ✉ purnimajagganathsahoo@gmail.com 🔗 linkedin.com/in/purnima-sahoo-61a566252/

Education

VIT Bhopal University   **2022 − 2026**
Bachelor's in Computer Science and Engineering (B.Tech)   *CGPA : 8.44*

Technical Skills

Programming Languages: C/C++, Python, JavaScript, HTML, CSS
Web Development: React.js, Flask, Tailwind CSS, Framer Motion, GSAP, Vanta.js, Three.js
Dev Tools & Platforms: Git, GitHub, Jupyter Notebook, Firebase, Vercel, Railway, Streamlit, Canva
Software Engineering: Data Structure and Algorithms, Object-Oriented Programming
Additional: Linux (basics), Hugging face Transformers, Scikit-Learn , Pytorch, TensorFlow, Keras, Computer Vision

Extracurricular Activities

Amdocs Graduate Gen AI Hackathon | *Qualified Finalist*   **Jan 2025 − Feb 2025**
- Earned national selection from a competitive pool for developing an innovative GenAI-driven solution.
- Engineered a responsive and intuitive user interface using React.js and Tailwind CSS, ensuring a seamless user experience.

Research and Development Lead | *Linux Club, Cyber Warriors Club*   **Jan 2024 − Dec 2024**
- Led research on audience engagement, developing data-driven publication strategies that increased content interaction.
- Streamlined workflows and conducted regular progress reviews, improving project efficiency by 4% and ensuring high-quality, timely deliverables.

Smart India Hackathon | *Qualified Finalist*   **Nov 2023 − Dec 2023**
- Secured a finalist position by advancing through multiple rounds against 500+ competing teams.
- Architected and developed a high-accuracy system to detect and flag fraudulent social media profiles, leading to the team's selection for the grand finale.

Projects (github.com/Purnima2004)

SkillCraft | *ReactJS, Tailwind CSS, HuggingFace Transformers, GenAI*   *https://course-craft-front.vercel.app/*
- Designed an adaptive learning platform powered by LLM-based content generation using HuggingFace Transformers for dynamic response creation, improved efficiency by 10%.
- Enhanced web application performance by integrating JavaScript and Vite, reducing load times and boosting responsiveness by 10%.

Auto ML Solution | *Python, Joblib, Pillow, Seaborn, Streamlit*   *https://automl-pro.streamlit.app/*
- Built an automated machine learning pipeline that evaluated multiple machine learning algorithms at 90% accuracy.
- Tested the pipeline on 10+ real-world datasets and deployed the solution using Streamlit, enabling an interactive web interface with real-time predictions and a user-friendly experience.
- Explored expansion with LLM-generated access logs summaries and alert messages as a future enhancement feature.

FaceKey | *Python, HTML, CSS, Javascript, Git, Flask, PostgreSQL*   *https://github.com/Purnima2004/FaceKey*
- Engineered a facial recognition model using OpenCV and dlib, leveraging advanced computer vision techniques to streamline user authentication. This innovation improved login efficiency by 40%.
- Integrated a blink detection mechanism using Eye Aspect Ratio (EAR), a robust computer vision technique, to prevent spoofing attacks such as photo or video-based impersonation, enhancing system security and performance by 30%.

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.