# Purnima Sahoo

Bhopal, Madhya Pradesh

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## Education

**VIT Bhopal University**                                            **2022 – 2026**
*Bachelor's in Computer Science and Engineering (B.Tech)*                *CGPA : 8.46*

## Technical Skills

**Programming Languages**: C/C++, Python, JavaScript, HTML, CSS
**Artificial Intelligence**: OpenAI Whisper, HuggingFace Transformers, LangChain, Prompt Engineering
**Machine Learning**: Scikit-learn, PyTorch, TensorFlow, Keras, Computer Vision
**Additional**: Flask, Docker(basics), Git, GitHub Actions (CI/CD), Web Development

## Extracurricular Activities

**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.

**Research and Development Lead** | *Linux Club, Cyber Warriors Club*   **Jan 2024 – Dec 2024**
- Conducted in-depth research on audience engagement trends to optimize publication strategies.
- Streamlined workflows and conducted regular progress reviews, improving project efficiency by 4% and ensuring high-quality, timely deliverables.

**Amdocs Graduate Gen AI Hackathon** | *Qualified Finalist*           **Jan 2025 – Feb 2025**
- Earned national selection from a competitive pool of over 500+ students 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.

## Projects (github.com/Purnima2004)

**FAQ Chatbot** | *Transformers, LangChain, FAISS, Docker, Web Scrapping*     *https://course-craft-front.vercel.app/*
- Developed a versatile AI chatbot that integrates a document analyzer, YouTube summarizer, and web content processor for intelligent, centralized Q&A.
- Engineered a RAG architecture using FAISS vector search and Hugging Face Transformers, improving overall task efficiency by over 30% and ensuring high-accuracy, context-aware responses.

**Auto ML Solution** | *Scikit-learn, pandas, joblib, Plotly, Seaborn*     *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.

**AI Assistant** | *Python, LangChain, Groq API, OpenCV*     *https://ai-assistant-multilingual.streamlit.app/*
- Developed a multilingual AI assistant capable of processing voice commands in English and Hindi
- Implemented specialized assistants (Reading, Walking, Navigation) with contextual task routing using LangChain.
- Added a fallback keyword detection mechanism for robust intent resolution in cases of LLM failure

## 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.