

Priyanshu

📍 Hubli, Karnataka, India ✉ is23bm007@iitdh.ac.in ☎ +91-9027652829

🔗 <https://priyanshuvijay1402.github.io/my-portfolio/> 💻 in Priyanshu Vijay 🌐 PriyanshuVijay1402

About

I am a 3rd year graduate currently studying Physics majors at IIT Dharwad with a keen interest in the field of Generative A.I., Artificial Intelligence, Machine Learning, Computer Vision and Transformers. I am currently exploring the aforementioned domains and levelling up myself for taking up any project.

Education

IIT Dharwad

BS-MS in Physics

Aug 2023 – Present

- GPA: 8.18/10.0
- **Coursework:** Pattern Recognition and Machine Learning, Natural Language Processing, Data Structures and Algorithms with C/C++, Project in Machine Learning

Experience

AI Intern

Dvara Solutions

Dharwad, Karnataka

May 2025 – Present

- Developing an intelligent multi-agent system using CrewAI to automate diverse AI tasks through tool orchestration and task delegation.
- Designed agents to handle OCR, GSTIN-based data retrieval, language translation, and object detection workflows.
- Currently working on building a dual-path execution framework: one for autonomous agent-based workflows, another for manual script generation and caching.

AI Intern

Dvara E Registry

Dharwad, Karnataka

Jan 2025 – May 2025

- Worked on estimating the Coffee Crop Yield using remote sensing techniques in Odisha
- Used database from Sentinel 2 and Landsat imagery. Used different Machine Learning models for estimation of yield.
- Used the SAFERNAC model for estimating the yield using the satellite imagery inputs, soil inputs as well as climatic inputs.

Intern

IIT Roorkee

Saharanpur Campus,

Uttar Pradesh

May 2024 – July 2024

- Project on 'Brain Tumor Classification'.
- Used Convolutional Neural Networks(CNN) to classify the brain tumor mri images into 4 types: glioma, meningioma, notumor and pituitary.
- Achieved an accuracy of 92.58

Projects

AI-Powered Research Assistant



- Developed an AI-Powered Personal Research Assistant using CrewAI and Mistral-7B. It interprets user queries, searches academic papers, summarizes findings, and formats a clean research report—automating the research workflow for students and professionals.
- Tools Used: CrewAI, LLMs, Python, Langchain, FastAPI, HTML, CSS, JavaScript

Portfolio Website



- Developed my Portfolio website for illustrating my skills, hobbies, the projects I have worked on and more.
- Tools Used: HTML,CSS,JAVASCRIPT

2D LIDAR SYSTEM USING ARDUINO

2025

- Built a low cost 2D Lidar System using an ESP32 microcontroller, a VL53L0X ToF Sensor, and a Stepper Motor
- Tools Used: Arduino, ToF Sensor, Stepper motor

Technologies

Languages: Python, C++, C, HTML, CSS, Javascript, FASTAPI, C#, SQL, JavaScript

Technologies: Generative AI, Machine Learning, Artificial Intelligence, CrewAI,,Natural Language Processing, Large Language Models(LLMs)