

Prerna Kulkarni

📍 Pune ✉ prernakulk12@gmail.com ☎ +91 8208454510 in Prerna Kulkarni 🌐 Prerna-lily



Education

- Vishwakarma Institute of Information Technology** *Nov 2020 – June 2026*
Computer Science(AI ML)
- GPA: 8.63/10
- Dnyanganga Junior College, Pune** *July 2020 - Feb 2022*
- Percentage: 83.33
- Pawar Public School, Pune** *Apr 2016 - March 2020*
- Percentage: 88




Experience

- Artificial Intelligence Intern, Team Leader** *Dallas, Texas*
JMedia Corp *Oct 2024 - Apr 2025*
- Developed JMedia Insight Pro™, an AI-powered tool for trend prediction and user segmentation.
 - Built a voice assistant that reads the latest news on command.
 - Leading a team of AI engineers and Web developer interns in developing AI-powered solutions, ensuring timely delivery and high-quality standards.
- AI Agent Developer Intern** *Mumbai, India*
OLL.co *Jan 2025 - Apr 2025*
- Working on Agentic System for EdTech, Improvising learning for the younger group
 - Assisted in developing and testing AI-powered agents for automation and decision-making.
 - Collaborated with a team of AI researchers and engineers to deploy AI solutions.

Publications

- Exploring the efficacy of various CNN architectures in diagnosing oral cancer from squamous cell carcinoma** [DOI Link](#) 
- A Novel and Sensitive Optical Fiber-based Methodology for Water Hardness Measurement** [Site Link](#) 

Projects

- AI-Powered Retrieval Routing** [github.com](#) 
- Implemented a RAG pipeline for information retrieval from vector databases and Wikipedia. Developed AI agents for dynamic routing of questions and intelligent info retrieval using LangGraph. Implemented Groq LLM for query classification and enhanced search accuracy.
 - Tools Used: Python, AstraDB, LangChain, LangGraph, Hugging Face, Tiktoken, ChromaDB, Wikipedia API
- AutoSocialSync** [Netlify](#) 
- Built a platform to schedule LinkedIn posts via a content calendar, auto-generate images and captions, integrate Canva for design, and manage editable campaigns—similar to Buffer.
 - Tools Used: React.js, MongoDB, OAuth 2.0 (for LinkedIn integration), Firebase Auth, Canva API, Hugging Face Transformers
- AgriSmart - AI Powered Precision Agriculture Platform** [github.com](#) 
- Developed a web-based platform for tomato crop analysis, integrating ML and CNN-Based models for smart farming solutions for company Syngenta.

- Tools Used: LSTM, ResNet-50, VGG-16, Docker, AWS EC2

Technologies

Languages: Java, Python, C++, HTML, CSS, SQL, PostgreSQL

Technologies: Machine Learning, TensorFlow, LangChain, OpenAI API, React.JS, Node.js, PostgreSQL, Vector Databases, FastAPI, Flask, Docker, AWS, n8n, Make, Zapier