

Palak Jain

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Professional Summary

AI/ML learner and Web Developer with strong technical, analytical, and problem-solving abilities. Experienced in building responsive web apps and developing AI/ML solutions using Python and modern web technologies. Fast learner with strong communication, teamwork, and time-management skills. Highly self-motivated, organized, and capable of working independently while contributing effectively to team projects. Interested in applying computational, analytical, and software development skills to satellite systems, research projects.

Projects

- **Web-Based Portfolio:** Designed and developed a personal portfolio website showcasing projects and skills using HTML, CSS, JavaScript, and React, with responsive UI and interactive elements.
- **Chemical Equipment Parameter Visualizer:** Built a **hybrid web & desktop application** for visualizing chemical equipment parameters using Django (backend), React (web frontend), and PyQt5 (desktop frontend). Implemented data parsing, visualization, and interactive charts for engineering applications.
- **Zoom – Video Calling Web App:** Built a browser-based video calling UI with peer-to-peer interaction using JavaScript.
- **Password Strength Checker (Python):** Developed a Python script for security analysis using regex and character rules.
- **Zerodha Trading Application:** Simulated trading strategies and analyzed real-time stock data using Python. Demonstrated data analysis, automation, and algorithmic decision-making.
- **Airbnb :** Developed a full-stack web application simulating Airbnb's booking platform with **React frontend, database integration, and responsive UI**, enabling property listings, search, and reservations.

Skills

- **Programming & Technical:** Python, Java, C++, C
- **Web Development:** HTML, CSS, React, Responsive UI, Web App Deployment
- **Software & Tools:** Django, PyQt5, Git/GitHub, VS Code, Jupyter Notebook
- **AI/ML:** Data preprocessing, basic ML models, model evaluation
- **Chemical/Engineering Skills:** Basic -Data visualization, parameter simulation, equipment analysis, Excel modeling
- **Other Skills:** Problem-solving, debugging, UI/UX fundamentals
- **Core Strengths:** Fast learner, Communication, Teamwork, Time management, Creativity, Self-motivation

Certifications

- Fundamentals of AI & ML – Vityarthi
- Google IT Support Professional Certificate – Google
- Cloud Computing – NPTEL
- Web Development – Apna College
- Data Structures & Algorithms – Apna College
- AWS Essentials – Intellipath

Education- Integrated M.Tech + B.Tech in AI

VIT University, Bhopal | CGPA: 8.34 | Expected: May 2028

Interests

AI & ML • Frontend Development • Editing • Dancing • Problem Solving