Piyush Yadav

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Objective

Motivated pre-final year Electronics and Communication Engineering student with a strong foundation in Python programming. Passionate about software development, problem-solving, and building scalable applications and seeking a Python Developer internship to apply my coding skills in real-world scenarios and gain hands-on industry experience.

Education

Pranveer Singh Institute of Technology, Kanpur
Bachelor of Technology – Electronics and Communication Engineering
Expected Graduation: 2026
Current Aggregate: 69%

Technical Skills

- **Programming Languages: Python, C, C++**

- **Web Development: Flask, Django**

- **Database Management: MySQL, SQLite**

- **Data Visualization & Analytics: Power BI, Tableau, Alteryx**

- **Tools & Technologies: OpenCV, NumPy, Pandas, TensorFlow (Basics)**

- **Productivity Tools: MS Office Suite (Excel, PowerPoint)**

Projects

1. AI-Powered Virtual Calculator (OpenCV + Gemini LLM)

- **Developed a visual calculator that recognizes hand-drawn math expressions using OpenCV and Gemini LLM.**

- **Enabled gesture-based controls for drawing, submitting, and resetting equations—offering hands-free interaction.**

- **Focused on AI + CV integration to create an accessible, intuitive solution.**

2. Personal Expense Tracker Web App (Flask + SQLite)

- **Built a full-stack expense tracker with Flask backend, user login, and category-wise spending analysis.**

- **Integrated charts using Matplotlib and Chart.js for visual summaries of expenses.**

- **Ensured mobile responsiveness and real-time updates with AJAX and Bootstrap.**

3. Object Detection & Motion Tracking System

- **Designed a surveillance tool that detects and tracks moving objects in video feeds using OpenCV.**

- **Implemented background subtraction, contour detection, and alert triggers.**

- **Project focused on low-latency processing for edge devices.**

Academic Achievements

- **Top 5% in Python coursework among batch peers.**

- **Solved 250+ coding problems on platforms like LeetCode, HackerRank, and CodeStudio.**

Extracurricular Activities

- **Core member of the university Coding Club, mentoring peers in Python and Data Structures.**

- **Finalist in 2+ hackathons, including college and inter-college coding events.**

Soft Skills

- **Analytical Thinking | Problem Solving | Team Collaboration**

- **Clear Communication (Verbal & Written)**