Rupesh Poudel

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Education

Pimpri Chinchwad College of Engineering (PCCOE)   **July 2022 – May 2026**
B.Tech in Computer Engineering   *Pune, Maharashtra, India*
- **CGPA:** 7.5/10

Pinnacle Academy   **Aug 2018 – July 2020**
Higher Secondary Education (Science Stream)   *Lagankhel, Lalitpur, Nepal*
- **GPA:** 3.0/4

Bal Kalyan Vidhya Mandir (B.K.V.M)   **May 2018**
Secondary Education (10th Grade)   *Biratnagar, Morang, Nepal*
- **GPA:** 3.35/4

Relevant Coursework

- Data Structures
- Operating Systems
- Computer Networks
- Web Development
- Algorithms
- Machine Learning
- Software Engineering
- DBMS

Projects

Bill Splitter Web App | *React, python, flask, Express, AWS DynamoDB, Tailwind CSS, Hypercorn*   **2025**
- Designed and developed a full-stack web application that helps users split group expenses efficiently.
- Implemented user authentication (Google OAuth), group creation, expense tracking, and real-time debt settlement logic.
- Integrated notifications and interactive charts for better user engagement and financial insights.
- Used DynamoDB from Amazon Web Services for data storage, and Tailwind CSS with shadcn/ui for modern responsive UI.

AI-Powered Log Analyzer | *Python, Flask, React, Vite, Tailwind CSS*   **2024**
- Developed a web app to parse and visualize server logs using Python (Flask) and React.
- Supports '.log' to '.csv' conversion, malicious request detection, and pattern recognition.
- Used regex, pandas, and clustering to clean, extract, and analyze over 1 crore log entries.

Soil Moisture Classifier | *Python, OpenCV, NumPy*   **2025**
- Built an image-based soil analyzer that classifies moisture level as Dry, Moist, or Wet.
- Used texture, crack detection, and color analysis to calculate a normalized moisture score.

Personal Portfolio Website | *React, EmailJS, Tailwind CSS*   **2025**
- Created a personal portfolio website using React to showcase projects, skills, and experience.
- Integrated EmailJS API to enable dynamic email sending functionality through the contact section.
- Designed with Tailwind CSS to ensure responsiveness and modern UI aesthetics across devices.

Technical Skills

Languages: Python, C++, JavaScript, HTML/CSS, SQL, Java
Developer Tools: VS Code, Git, GitHub, Google Colab, Postman
Frameworks & Tech: Flask, React, Tailwind CSS, OpenCV, Pandas, Matplotlib, NumPy, Scikit-learn, Vite, EmailJS, REST APIs
Databases & Cloud: AWS, MySQL, Render, Vercel, Netlify
Concepts: DSA, OOP, DBMS, Operating Systems, Networking, Cybersecurity, Machine Learning

Extracurricular Achievements and Research Highlights

- Won the **Best Paper Award** at BabyConference for developing an Apache Log Analyzer using machine learning on synthetic log datasets.
- Conducted cybersecurity research using clustering and Random Forest models for attacker-resistant access control.
- Solved **500+ problems** on CodeSoft, HackerRank, and LeetCode, strengthening DSA and algorithmic thinking.
- Earned certification for completing **CS50: Introduction to Computer Science** by Harvard University.