

RUPESH POUDEL

Pune, Maharashtra, India

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Education

Pimpri Chinchwad College of Engineering (PCCOE)

B.Tech in Computer Engineering

- CGPA: 7.0/10

July 2022 – May 2026

Pune, Maharashtra, India

Pinnacle Academy

Higher Secondary Education (Science Stream)

- GPA: 2.92/4

Aug 2018 – July 2020

Lagankhel, Lalitpur, Nepal

Bal Kalyan Vidhya Mandir (B.K.V.M)

Secondary Education (10th Grade)

- GPA: 3.35/4

May 2018

Biratnagar, Morang, Nepal

Relevant Coursework

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|---------------------|------------------------|-------------------------------|-------------------------|
| • Data Structures | • Computer Networks | • Cloud Computing | • Neural Networks |
| • Algorithms | • Software Engineering | • Natural Language Processing | • Large Language Models |
| • Operating Systems | • Web Development | | |
| • Machine Learning | • DBMS | | |

Projects

Bill Splitter Web App | React, Flask, Express, Python, AWS DynamoDB, Tailwind CSS, Hypercorn 2025

- Built a full-stack web application to manage and split group expenses with real-time updates and debt resolution.
- Implemented Google OAuth for secure user authentication, along with group creation and expense tracking workflows.
- Integrated notification system and dynamic charts to enhance user experience and provide financial insights.
- Utilized AWS DynamoDB for scalable data storage and Tailwind CSS with shadcn/ui for responsive, modern UI design.

Chat With Documents | Python, LangChain, FAISS, Flask 2025

- Developed a document-based conversational AI system allowing users to upload PDFs and chat with their content.
- Used LangChain framework with RAG (Retrieval-Augmented Generation) to integrate LLM responses with context-relevant document retrieval.
- Implemented vector database using FAISS for semantic search and memory-efficient embeddings via HuggingFace models.
- Designed backend in Flask with session handling, chunked PDF parsing, OpenAI/DeepSeek model support, and chat history management.

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.

Technical Skills

Languages: Python, C++, JavaScript, HTML/CSS, SQL, Java

Developer Tools: VS Code, Git, GitHub, Google Colab, Postman

Frameworks & Tech: Flask, LangChain, FAISS, 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, Retrieval-Augmented Generation (RAG)

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.