

Pratik Pant

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Summary

Passionate computer engineering student with keen interest in risk-aware operational workflows, data analytics, and process optimization. Competent in improving information flow, coordinating teams, and delivering precise results in dynamic environments.

Education

Bachelor of Computer Engineering 2024 – Present
Institute of Engineering – Thapathali Campus, Tribhuvan University

Experience

Hardware Fellowship IOE Pulchowk Campus

- Selected for competitive hardware fellowship focused on practical engineering problem-solving.
- Designed and implemented hardware-based solutions through hands-on lab and team activities.
- Secured **Second Prize** for overall project performance and innovation.

Graduate Conference Program Coordinator IOE Thapathali Campus

- Co-conducted a graduate-level technical conference; managed scheduling and participant coordination.
- Handled documentation, registrations, and on-ground logistics for smooth event execution.

Projects

Agentic RAG – Intelligent Document Q&A System GitHub

- Built an agentic RAG system that autonomously retrieves and reasons over documents for complex queries.
- Integrated Qdrant vector database for semantic search; built Gradio UI for real-time querying.
- Implemented multi-step reasoning, query refinement, and tool-augmented retrieval workflows.

Credit Card Fraud Detection System GitHub

- Detected fraudulent transactions using historical data; performed preprocessing and feature analysis.
- Applied Python data analysis tools including Pandas and NumPy to identify patterns and reduce false positives.

SkillSwap – Student Freelancing Platform

- Full-stack platform for students to showcase skills and find freelance work.
- Stack: Next.js, Tailwind CSS, Node.js, Express, PostgreSQL; authentication via JWT and OAuth.
- Implemented job postings and skill-based matching; focused on scalability and usability.

Technical Skills

Languages	Python, JavaScript, TypeScript, SQL
Frameworks	Next.js, Node.js, Express, Tailwind CSS
Data / ML	Pandas, NumPy, Matplotlib, Qdrant, Gradio
Tools	Git, AWS, PostgreSQL, Power BI basics, Tableau basics, Arduino

Relevant Skills

- Process Optimization, Workflow Design, and System-Level Problem Solving
- Data Analysis with Python and exposure to Data Science workflows
- Technical Documentation, Information Management, and Quality Control
- Team Coordination, Leadership in project-based tasks, Hardware–Software Collaboration