

Arses Prasai

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EDUCATION

Dartmouth College, Hanover, NH

June 2027

Bachelor of Arts in Computer Science and Mathematics

GPA: 4.0/4.0

Relevant Coursework: Data Structure and Algorithms, Linear Algebra, Advanced Multivariable Calculus, Python Programming, Machine Learning, Evolutionary Game Theory, Differential Equation, Graduate level Statistics

Honors/Awards: Rufus Choate Scholar (Top 5% of class), Undergraduate Research Assistantship, Academic Citation for Meritorious Performance (x4), Rank#1 in Nepal (A-level Mathematics)

RESEARCH & WORK EXPERIENCE

Project Assistant

Hanover, NH

Evergreen AI

June 2025–Current

- Curate inclusive content for 5K + students, addressing accessibility, cultural relevance, timing, and affordability.
- Train AI chatbot for a student wellness platform, aligning content with behavioral health principles.

Undergraduate Researcher(Engineering)

Hanover, NH

SENSE Lab

January 2025– Sept 2025

- Optimizing Aerosol Jet Printing for 3D on-chip inductors using Bayesian tuning of key parameters.
- Automating lab experiments using AI agents, AX, Power Automate, saving 100+ hours per experiment across the lab.
- Creating SOPs, assessing print quality, and sharing weekly updates with graduate researchers.

Undergraduate Researcher(Computer Vision)

Hanover, NH

Jin Lab

May 2025– Current

- Fine-tuning large multimodal models (e.g., Qwen 2.5 VL) to enable analysis of long-duration video content, with a focus on improving temporal reasoning and visual-textual alignment.
- Examining cross-attention layers in diffusion models to visualize and quantify information encoding during image generation and conversion processes.

Frontend Developer

Hanover, NH

Dartmouth Tech Consulting Group & Institute for Rural Development

January 2025–May 2025

- Co-built a basketball coach's site in a 3-person team using HTML, CSS, and JavaScript; added booking form, calendar sync, highlight reels, and testimonials to improve discoverability and convert inquiries into sessions.

Projects

- **TaraTeer:** an end-to-end, real-time stock prediction platform for the Nepal Stock Exchange using an LSTM trained on 75k+ datapoints, RAG for contextual grounding, and a web-scraping API for live data ingestion.
- **ViOLense :** Built a multistep AI pipeline trained on 1000+ videos to detect violence and bullying in public spaces
- **Barnacle Detector** - Fine-tuned 2 CNN-based models on multiple datasets (9000+ images), achieving ~90% accuracy in barnacle counting; implemented an OpenCV pipeline with comparable performance.
- **AmazonSentimentClassifier :** Trained 6 models for binary and multi-class classification on 26K+ Amazon reviews; achieved top 5 rankings across 5 Kaggle competition categories
- **YoutubeToFlashcards :** Created an agentic workflow that takes youtube links and creates anki flashcards

Additional Activities and Leadership Roles

House Council Co-Chair and Undergraduate Advisor

Hanover, NH

Residential Life

Sept 2024–Current

- Manage \$5K budget for weekly programs serving 400+ residents, boosting engagement and inclusivity.
- Mentor and support 50+ students, fostering a safe and collaborative residential environment.

Vice President

Hanover, NH

Dartmouth Nepali Student Association

Sept 2024–Current

- Oversee \$5,000+ budget to organize cultural festivals; engage 200+ attendees and to foster intercultural dialogue..
- Build an inclusive community for Nepali students while sharing traditions with the broader Dartmouth community.

ADDITIONAL

Technical Skills: Proficient in Python, Java, Javascript, HTML/CSS, Excel, Sci-kit, Pytorch, torchvision

Languages: Hindi, English, Nepali

Interests: Soccer, Hiking, Travelling, Snowboarding