

# PRADYOT BATHURI

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## EDUCATION

### Indiana University Bloomington, Luddy School of Informatics, Computing, and Engineering

Bachelor of Science in Intelligent Systems Engineering  
Bachelor of Science in Mathematics

May 2027

Jan 2028

## EXPERIENCE

### Prof. Yuxi Hong Research Group - Undergraduate Researcher

Bloomington, IN

Jan 2026 - Present

- Conduct research on cache mechanisms for finance-oriented computational workloads, examining memory hierarchy behavior, data locality, and performance tradeoffs in compute-intensive systems on HPCs like the BigRed200.
- Review and synthesize technical literature spanning high-performance computing, caching strategies, and quantitative finance workflows to identify promising optimization approaches and find application correlations across multiple fields.
- Evaluate how cache-aware design can improve efficiency in financial workloads such as portfolio risk analysis, simulation pipelines, and large-scale data processing.

### Machine Learning 4 All - Regular Member

Bloomington, IN

Jan 2026 - Present

- Actively participate in weekly group build meetings.
- Part of a two-person project to build a automated resume improver agentic workflow using langchain

### Perplexity - Brand Ambassador, AI Thought & Ethics

Bloomington, IN

Aug 2025 - Feb 2026

- Represent Perplexity through AI ethics and thought leadership outreach, generating 45+ qualified leads through curated content and speaking engagements.
- Promote responsible AI practices and technology discourse across campus-facing engagement channels.
- Worked in a performance-based ambassador role tied directly to lead generation and outreach outcomes.

### Indiana University Student Government Congress - Kelley

School Representative, Equity & Justice Committee

Oct 2024 - Oct 2025

Bloomington, IN

- Championed policy advocacy initiatives that promoted cross-community dialogue on geopolitical concerns.
- Led a student coalition addressing budget cuts affecting academic support services and proposed an inter-university representative framework to strengthen student advocacy.
- Engaged 100+ peers and visitors at campus events through clear, strategic information dissemination.

## SELECTED PROJECTS

### Form8 LifeSciences - Venture Strategy

Feb 2024 - Present

- Conducted market sizing and regulatory research for a nutraceutical venture targeting India's supplements market.
- Built an FSSAI compliance checklist, manufacturer vetting matrix, and initial 5-SKU product strategy.

### AI Ethics Coach - Chrome Extension

Sep 2024 - Sep 2025

- Built a Chrome MV3 extension using Gemini 1.5 to analyze text and flag policy or compliance concerns.
- Designed interaction flows including a selection bubble, modal, and persistent side panel to improve usability.
- Structured prompts for safety analysis and documented Chrome Web Store submission requirements.

### Convo AI - Gamified Learning Platform

Jun 2024 - Sep 2024

- Designed and built a Streamlit application with a JSON-driven skill map, XP tracking, and milestone progression.
- Implemented streaks, badges, and unlock-gate logic to improve consistency and engagement.
- Created a modular architecture that enabled new domains to be added without UI rewrites.

### LOL News - React Native News App

Apr 2024 - Jun 2024

- Built a cross-platform mobile app with date-based headline curation and text-to-speech narration.
- Designed an API-ready service layer to support multiple news sources with minimal refactor.

## SKILLS

**Programming:** Python, JavaScript, C, HTML/CSS

**AI / ML:** LLM prompt engineering, Streamlit, Cuda, Cursor, structured AI workflows

**Frontend / Product:** React Native, responsive UI/UX design, user testing, performance analytics

**Languages:** English (Fluent), Hindi (Professional), Japanese (Limited Proficiency)

## CERTIFICATIONS

### IBM Generative AI Engineering Professional Certificate, Coursera (2026)

- Covered transformers, LLMs, prompt engineering, and core generative model architectures used in modern NLP systems.
- Built practical skills in Python-based application development, RAG, LangChain, tokenization, model evaluation, and deployment workflows.

**Additional:** Building Generative AI-Powered Applications with Python - IBM (2025); Developing AI Applications with Python and Flask - IBM (2025); Machine Learning with Python - IBM (2026); Data Analysis with Python - IBM (2025); Fundamentals of Quantitative Modeling - University of Pennsylvania (2025); Financial Markets - Yale University (2025); Trained Mentor Certification - Mentor Collective (2025)