Ansh Mittal

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Education

Purdue University Graduated May 2024

B.S. in Computer Science, GPA 3.69, Dean's List and Top 100 student

Experience

Aleph Nott April 2026 – Present

Research Engineer

- Building Deep learning and Transformer Model implementations for Mechanistic Interpretability experiments.

Indiana Farm Bureau Insurance January 2024 – April 2026

Software Engineer | Forward-Deployed Engineer (Internal) *Indianapolis*

- Shipped a prompt-engineered **LLM content reviewer** for PR/Public Comms + Legal to audit customer-facing documents against corporate style/lexicon/legal guidelines; supported ˜500 docs/year and delivered ˜80% time savings (user-reported) via AI-first triage + verification.
- Built a production **unstructured→structured** ETL pipeline using **AWS Textract + LLM extraction + pandas** to convert insurance PDFs into reportable datasets (text entities + signatures/logos); reused across teams (document ops in prod; underwriting next) to reduce manual document review/admin work.
- Implemented a custom MCP on top of Microsoft Graph API for automating IT help-desk tasks and migrating Endpoint Management system (SCCM to Intune)

Indiana University October 2023 – May 2024

Web Developer Intern *Indianapolis*

- Developed a JavaScript-based PDF renderer improving the learning experience for over 500 students.
- Created and deployed 12 ADA-compliant webpages using WordPress and CI/CD practices, enhancing accessibility.

AI Researcher June 2023 – August 2023

Clinical Data Analysis using NLP models, Funded by National Institutes of Health *Indianapolis*

- Authored and published research on zero-shot data extraction using GPT models, and datasets from HuggingFace in IEEE Big Data Conference.
- Built an application for ETL processes, Named Entity Recognition, and cosine similarity computations, delivering actionable insights.
- Automated data cleaning tasks using Python and regex, saving each team member over 25 hours.

Projects

Notetaker | *Python, FastAPI, Claude models, OpenAI Whisper, Docker*

- Built a video lecture to markdown converter using a multi-agent pipeline (Claude Opus/Sonnet/Haiku) with parallel processing, lossless voice preservation, and resumable jobs; inspired by an Andrej Karpathy challenge.

Implemented Deep Learning Papers

- Developed deep learning models from fundamental backpropagation techniques to advanced neural networks, including GPT.

Automated Decryption

- Created a Python-based solution for decrypting messages using frequency analysis, brute force methods, and machine learning (Hill Climbing).

Relavent Skills

Languages: Python, JavaScript, C, HTML, CSS, and SQL
Libraries: PyTorch, FastAPI,
Tools: Git, AWS, Azure, Docker, GitHub Actions, CI/CD, Power BI, Claude Code, Wandb