

Himnish Jain

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EDUCATION

University of Illinois Urbana - Champaign

Champaign, IL

• Bachelor of Science in Computer Science

Aug 2021 – May 2025

• Bachelor of Science in Statistics

GPA: 3.9

• Minor: Economics

Dean's List

• Coursework: Data Structures, Algorithms, Artificial Intelligence, NLP, Systems, Computer Arch.

EXPERIENCE

AiDash

California

Machine Learning Engineer | Kubernetes, Tensorflow, Pytorch, Python

May 2024 - August 2024

- **Data Monitoring:** Deployed ML pipelines to detect drift in satellite imagery data, achieving accuracy of 94%.
- **Human-in-the-Loop:** Set up methodologies for ground truth accumulation and automated grading, implementing active learning techniques.
- **Grading System:** Automated data validation and monitored clusters using Grafana and Groundcover.

Research Assistant at ScribeAR (Professor Lawrence Angrave)

Illinois

ScribeAR: Real-time transcription for audibly impaired | Whisper, GPT-4, NLP, Computer Vision Jan 2023 - Present

- **Whisper CPP:** Implemented an alternate speech to text backend to ScribeAR using OpenAI's Whisper, reducing transcription times to around 2 seconds per sentence.
- **React:** Developed a React hook for Whisper API calls, with options for softness levels, transcription speeds and history management.
- **AI and Machine Learning:** Conducted research on speaker identification, diarization, and audio classification, contributing to AI and machine learning developments.

Lead Teaching Assistant (CS, Engineering) at UIUC

Illinois

Lead ELA for CS in Engineering 100 | Leadership, Mentoring, Cultural Intelligence

Aug 2023 - Present

- **Teaching and Mentoring:** Led a technical engineering orientation class with 500+ first-year computer science students, offering crucial support during their initial semester in the engineering program at UIUC.
- **Teamwork:** Cultivated a collaborative learning environment that encouraged active participation and teamwork.
- **Assignments:** Created lesson guides & assignments & graded them with personalized feedback for students.

Protiviti Global

India

Data Science Intern | Python, Tensorflow, Keras, flairNLP

May 2023 - Aug 2023

- **Reinforcement Learning:** Developed a Next Best Action predictor for individualized client preferences using a Deep Q-Network that predicted the next two actions to take with a 93% precision.
- **Natural Language Processing:** Converted a codebase from SpaCyNLP to FlairNLP for an internal tool for more optimized Named Entity Recognition.
- **Image Processing:** Devised an algorithm to capture images from PDFs, and detect their usability for efficient billing and HR purposes.

WovV Technologies (SaaS Company)

India

Java Software Development Intern | Java, SpringBoot, Flutter

May 2022 - Aug 2022

- **Omnichannel Development:** Facilitated the transition of MNC mall corporations to an omnichannel retail strategy, elevating customer retention rates by up to 90%.
- **E-Commerce Platform:** Created an e-commerce platform that was able to handle high traffic volume during peak times without any major issues alongside a team of 25 people.
- **File Downloader:** Engineered an optimized media downloading algorithm, reducing processing time by 30%.

PROJECTS

- **BlockTix:** A marketplace for the resale of tickets, verified using Blockchain technology.
- **UrbanHawx:** Created a home security software leveraging facial recognition technology.
- **MoodSpot:** Engineered personalized playlist generation through facial mood detection and machine learning.
- **Pandemic TD Battles:** Designed a 3D PC game in the Tower Defence genre with shop and timer-based logics.

PROGRAMMING SKILLS

Languages: C, C++, Python, Java, OCaml, C#, SQL, Rust, Go, JavaScript, HTML, CSS, Solidity

Frameworks and Technologies: AWS, React, Unity, Kubernetes, Flutter, Node.js, Flask, QlikSense, FlairNLP, Matplotlib, PySpark, Numpy, Pytorch, Pandas, Git, Docker, OpenCV, Whisper