

Anirudh Joshi

joshianirudh.github.io

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Education

Carnegie Mellon University

Master of Science in Artificial Intelligence Engineering

Aug. 2024 – Dec. 2025

Pittsburgh, PA

PES University

Bachelor of Technology in Computer Science Engineering CGPA: 8.51

Aug. 2019 – May. 2023

Bangalore, India

Relevant Coursework

Courses: Introduction to computer systems, Large Language Models Methods & Applications, Introduction to Machine Learning with Adversaries in mind, System & Toolchains for AI, Introduction to Information Security.

Experience

Hewlett Packard Enterprise

August 2023 – May 2024

Cloud Engineer-1

Bangalore, India

- Integrated networking device statistics into data pipelines using REST APIs, enhancing data accessibility and real-time monitoring.
- Engineered health and device state pipelines, automating the computation of statistics and optimizing data storage in Clickhouse and ArangoDB.
- Facilitated AI-Ops integration by mapping device state and health statistics to relevant Kafka topics, streamlining operations.
- Implemented dynamic logging for devices and pipelines, improving traceability and system diagnostics.

Hewlett Packard Enterprise

January 2023 – July 2023

Software Engineering Intern

Bangalore, India

- Delivered a real-time network monitoring script, detecting and managing devices with excessive bandwidth usage. Utilized time-series forecasting algorithms for anomaly detection, identifying increasing usage patterns and implementing throttling mechanisms for top-talking devices, ensuring network stability.

PESU Venture Labs

July 2022 - December 2022

Machine Learning Intern

Bangalore, India

- Developed a Journal Recommender System, leading the end-to-end process from data collection and cleaning to feature engineering and multi-label classification, enhancing research accessibility.
- Designed a Glassdoor scraper to extract job descriptions and analyze the most in-demand skills, informing strategic career planning.
- Contributed to a real-time weather forecast model by leveraging incremental learning, improving prediction accuracy.

Projects

Attention Based Evolutionary Approach for Image Classification [Link](#)

December 2022

- Pioneered a novel evolutionary algorithm, integrating an Attention Mechanism for the first time in image classification. Demonstrated that incorporating more state-of-the-art (SOTA) methods enhances fitness, even with fewer generations of evolution.

An Automated Workflow for Deepfake Detection [Link](#)

March 2022

- Engineered an innovative workflow for deepfake detection, leveraging advanced algorithms to identify and mitigate fraudulent content. Proved that augmenting SOTA methods increases detection accuracy while reducing processing time.

Financial Insights Using LLM [Code](#)

September 2023

- Developed a Streamlit app that automates financial analysis by extracting recent data from Google articles and Yahoo Finance, and utilizing GPT-3.5 to provide insightful financial advice based on the aggregated information.

Chat with Personal Documents using Mistral 7B [Code](#)

November 2023

- Created a cost-effective, private chat solution for personal documents by implementing Mistral-7B, eliminating the need for expensive proprietary models like GPT or Claude, and safeguarding sensitive information.

Technical Skills

Languages: Python, Java, C

Technologies: Kafka, Docker, Kubernetes, Argo CD, Maven, SQL, Mongo DB, Arango DB.

Frameworks & Libraries: : Linux, Jenkins, GitHub, Open AI API , Hugging Face API, Pytorch, Tensorflow, Pandas, Numpy, Scikit-learn, Spacy, NLTK, Gensim, Scipy, Streamlit, HuggingFace, Matplotlib, Seaborn, Plotly.