

YASHDEEP PRASAD

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EDUCATION

New York University

Sep 2024

Masters in Computer Engineering, Data Science Minor

Indraprastha Institute of Information Technology, Delhi

Aug 2018 - May 2022

Bachelors in Computer Science

CGPA: 3.8

TECHNICAL SKILLS

Programming: Python, Java, JavaScript, React, SQL, Shell

Software & Tools: Huggingface, MongoDB, AWS, Pytorch, Tensorflow, Docker, Ollama

Relevant & Courses: Data Structures, DBMS, Operating Systems, ML, Computer Vision

WORK EXPERIENCE

1. Reliance Jio, Bengaluru

November 2022 - August 2024

AI Software Engineer, System of Intelligence

- Developed LLM powered Agentic system to make API Tool calls via LLM's finetuned on API documentation.
- Developed an internal service for managing end-to-end machine learning workflows and model training, enabling seamless deployment and scaling of data science pipelines across Telos(Jio Organization for AI).
- Developed expression engine to perform computation efficiently for the recommendation system. Architecture improved matrix multiplication calculation for protocol buffer objects.

2. HMI LABS, Delhi

October 2021 - April 2022

Machine Learning Student Researcher

- Developed a web interface to capture and segment user responses to advertisements. Conducted A/B test and hypothesis test. Multiple modalities were captured, for example: **eye, face, and audio**.
- Created a video pipeline from scratch for 3DCNN + NeXtVLAD and LGSS+Xception+ NeXtVLAD in Pytorch.
- Data prepared and cleaned for **100+ users** after extracting features using **OpenFace**.

3. Microsoft, Remote

May 2021 - July 2021

Software Engineering Intern

- Improved **MAPE score** for next-day load forecasts from **4% to 2.02%**, on load consumption data.
- Optimized GPU-accelerated training pipelines using PyTorch and TensorFlow, enhancing model training speed.
- Explored and implemented state-of-the-art deep learning architectures (LSTMs, Transformers) for time-series forecasting

PROJECTS

1. Active Learning and Teaching

- Managed an online teaching cross platform App built on **React-native and Firebase** with **500+ daily active users**.
- Performed complex computation using **GCP and Firebase cloud function** increasing the App performance by 50%.

2. Mars Rover Microsoft Engage

- Designed an interactive website for visualization of shortest path using **AI-based algorithms** like **A***, **IDA***, and **Best-first-search**.
- Conducted intensive **UI/UX research** to effectively present animations using frameworks like **Three.js**.

AWARDS

- Dean's List Awardee (Exceptional record in academics in the year 2020-2021 Top 10% among all students)
- All India 2nd Position in Microsoft Engage Program 2020
- Research paper published in ICETC'22 under education and Technology(Mobile-Based Active Learning can Enhance Engagement in Classroom)