

PARTHIV A DHOLARIA

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Education

B.Tech , Indraprastha Institute of Information Technology, Delhi

2021 - 2025

- Computer Science and Engineering | CGPA: **8.42**

Bhavans Public School , Doha , Qatar

2020 - 2021

- *AISSE (Class XII), Percentage: 94.2 %*

Skills

C++ | C | Java | Python | Machine Learning | Deep Learning | CV | NLP | HTML | CSS | JS | MySQL | Django | Git | Mongo | AWS

Work Experience

Ripik.Ai | ML Engineer

May'25 - Present

- Creating **training and deployment ML pipelines** for Detection , Tracking and Counting CV use cases for PGP Glass and IMFA. I have trained **YOLO models for detection and segmentation** and used **GDINO** wrappers to build CV solutions.
- Also worked on Optimizing the Ripik Optimus to **improve the Production planning and Manpower scheduling** for Sunpharma Pharmaceuticals and Sai Life LTD.

NX Block Trades Pvt. Ltd. | ML Intern

Jan'25 - May'25

- Worked upon **Real time high frequency monthly options data**. Analysed strategy and Performed **Backtesting**.
- Implemented **Quantile Regression** to generate ON/OFF signals for the strategy. **Improved the cumulative profit** of the firm.

CISPA-Helmholtz center for Information Security , Germany | Summer Intern

May'24 - Jul'24

- **Analysed the vulnerabilities** in TLS handshakes and **developed a ML system** to detect attacks on servers.
- **Automated the attacks on different servers** and developed a **pipeline for curating dataset , training and evaluation**.

Projects

NumerAi: crowd-sourced hedge fund data- science Competition | [Github](#)

Nov'24

- **Predicted the stock returns of unknown stocks on Live data** given the varying number of market features and concept drift.
- Implemented Metric based **Meta learning approaches like Matching and Prototypical Networks**.
- Best Correlation with Target : 0.0221. Corr Ranking : 1376/2117 & MMC ranking : 894/2117 (as of Nov'24).

Evaluating Mathematical Reasoning of LLMs | [Github](#)

Nov'24

- Tested LLMs like : Mixtral-8x7b , Llama-3.1-8b, Gemma-9b on SVAMP , GSM8k and GSM-Hard dataset.
- Implemented novel **MultiAgent Framework with specializer and master combined with RAG**.
- Other techniques: **ZeroShot , CoT , ReAct , RAG , Teacher-Student Model**. Metric : Accuracy (Best : 100%).

Textual Emotion-Cause Pair Extraction in Conversations | [Github](#)

Apr'24

- A two-step pipeline architecture is introduced to **identify emotion-cause pairs**.
- **First : Emotion classification** done for the utterances using a novel architecture. **Second : a Question-Answer model** to identify causes for the target utterance based on the identified emotions.
- **Ranked 5th** in Subtask 1 CodaLab Competition for the SemEval-2024 Task3.

Convolution & Transformer based SOTA Object Detection models | [Github](#)

Apr'24

- **Reproduced the Official Paper's results** for **DETR** and **EfficientDet** on COCO Dataset.
- Performed Qualitative and Quantitative Analysis (**TIDE Analysis**) on an unknown dataset (**PASCAL VOC 2012**).

Achievements

- Received the Dean's Award for Academic Excellence for securing an overall CGPA of 9 for my 3rd year.
- School Topper in 12th CBSE Board exam 2021-22.
- 89.78% accuracy on Google Speech Command Dataset(using GMM) and 59.798 % on Human activity recognition dataset from UCL(using KNN)