

# PARTH SANDEEP RASTOGI

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## EDUCATION

### Indraprastha Institute of Information Technology

Bachelor of Technology in Computer Science and Engineering

Delhi, India

Oct 2022 - May 2026

- **GPA: 9.14/10** (till 6th semester)
- **Courses:** Database Management Systems, Object-Oriented Programming, Computer Networks, Algorithms, Operating Systems, Software Development using Open Source, Gpu Programming, Machine Learning, Artificial Intelligence, Natural Language Processing, Causal Inference(A+)

## SKILLS

**Programming Languages:** Python, R, C++, C, Java, JavaScript

**Tools and Technologies:** PyTorch, Transformers, Pandas, Numpy, R Studio, NVIDIA CUDA, Git, Linux, Bash, Maven, Slurm, MySQL Workbench, L<sup>A</sup>T<sub>E</sub>X, Markdown, AWS( DynamoDB, Lambdas, S3, SAM, SQS), Langchain, FastApi

## WORK EXPERIENCE

### Data Science Intern, Laika AI — *Python, AWS, FastAPI, DynamoDB*

May'25 – Present

**Advisor: Mr. Divyanshu Chauhan**

- Designing the backend for Laika AI's multi-agent chatbot using modular design patterns (Factory, Strategy) for scalable tool orchestration and robust agent control flows.
- Implemented, and tested 10+ production-ready tools for crypto analytics, live/historical pricing, NFT and wallet tracking, transaction management, search, document retrieval, and social media fetching.
- Currently integrating tools with in-house streaming pipelines; leveraging FastAPI and AWS (Lambda, S3, DynamoDB) to enable persistent, real-time multi-agent hallucination free interactions.

### ML Intern, Heydo Tech — *Python, PyTorch, Time Series Forecasting*

Jan'25 – Apr'25

**Advisor: Mr. Akshmit Dewan**

- Developed an end-to-end ML pipeline for the *Apni Mandi* project, modeling weekly sales trends using 3+ years of time series data covering 10,000+ SKUs across multiple stores.
- Benchmarked LSTM, GRU, and Transformer architectures for multivariate forecasting; best model achieved a mean absolute error (MAE) of 4.5 on weekly prediction.
- Performed seasonality decomposition and feature engineering (e.g., rolling statistics, calendar effects) over 3M data points to enhance signal quality and model performance.

## PROJECTS

### ERP System Modules — *React.js, Dynamodb, Lambda*

Jan 2025 - May 2025

- Developed an Enterprise Resource Planning application for Aero Armour to optimize employee-specific operations.
- Tasks for development include integrating Shopify for order data, automating production workflows, quality checks, delivery preparation, return handling and providing product sales analysis.

### Deception Detection in Diplomacy — *Python, NLTK, Torch, Transformers*

Mar 2025 - Apr 2025

- Built HiS-Attention, a transformer-based multimodal fusion model integrating BERT message embeddings, structured game-state features, and ten-turn context achieving a 57.38% Macro F1 (Higher than prior SOTA) and 21.9% Lie F1.
- Developed LieDetectorGAT, an edge-aware graph-attention network enriched with BERT embeddings and deception-lexicon cues—setting a new SOTA of 58.0% MacroF1 (+0.6pts) and 26.6% Lie F1 on the Diplomacy deception benchmark.

### Shell-Scheduler — *C Language, Linux, Shell Scripting*

Sep 2023 - Oct 2023

- Designed a Linux shell with prompt display, command execution, and command history tracking along with a scheduler to schedule those processes.
- Implemented **IPC mechanisms** including signal handling, piping, and background process management
- Developed **Multilevel Queue (MLQ)** and Round Robin schedulers that increased efficiency of shell by 30% .

## AWARDS AND ACHIEVEMENTS

- Secured KVPY Fellowship 2020 by achieving rank 467 all across India.
- Ranked among the top 1% of over 1 million applicants in JEE Mains
- Achieved Dean's list Award for year 2023-24 and 2024-25 by showcasing outstanding academic performance
- Ranked among the Finalist in "HackJNU 3.0, 2024," a hackathon focused on global sustainable goals.
- Solved 800+ algorithm problems combined over [LeetCode](#) and [Codeforces](#)
- Reached Specialist (Max. 1400) on Codeforces

## POSITIONS OF RESPONSIBILITY

- Software Product Design mentor at Centre for Intelligent Product Development ,Responsible for mentoring and nourishing student ideas