

Raj Tharani

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EDUCATION

Madhav Institute of Technology & Science

Bachelor of Technology in Computer Science Engineering; GPA: 6.8

Gwalior, India

Sept 2022 - June 2026

SKILLS SUMMARY

- **Languages:** Java, JavaScript, SQL
- **Frameworks:** React.js, Node.js, Express.js, PyTorch, HuggingFace, scikit-learn
- **Tools:** Git, GitHub, MongoDB, MySQL, Wireshark, Postman
- **ML/NLP:** Transformers, Text Classification, GRU, Random Forest, PPO
- **Other:** Full-Stack Development, REST APIs, DSA, MERN Stack
- **Soft Skills:** Team Leadership, Cross-Functional Collaboration, Requirements Analysis, Agile Workflow Management

WORK EXPERIENCE

ML Backend Developer Intern – Coding Junior | [LINK](#)

June 2025 -September 2025

- Fine-tuned a RoBERTa model on a **70k coding-intent dataset**, improving classification confidence by **12%** compared to the baseline API model.
- Upgraded the **prompt-generation & preprocessing layer** of the company's RAG pipeline, reducing noisy inputs by **~18%** and supporting more accurate downstream retrieval.

Ethical Hacking & Cybersecurity Intern – CDAC Noida | [LINK](#)

September 25-October 2025

- Evaluated **10+ digital-verification tools** (Google Fact-Check, InVID, spam classifiers, etc.) to detect phishing, fake emails, and manipulated media across major platforms.
- Documented **12+ security vulnerabilities** and recommended mitigation steps, strengthening CDAC's misinformation-detection workflows for future research projects.

PROJECTS

MERN Food Delivery App (MERN Stack, Full-Stack) | [LINK](#)

August 25- September 2025

- Built and deployed a MERN-based food delivery platform with **JWT authentication** and optimized REST APIs, improving response times by **~22%**.
- Implemented Context API for global state management, reducing unnecessary re-renders by **~30%**.
- Created a real-time analytics dashboard enabling users to track **orders, spend trends, and activity summaries**.

RoBERTa-Based Intent & Category Classifier (NLP, Transformers, PyTorch) | [LINK](#)

June 2025 -September 2025

- Trained a RoBERTa classifier on a **70k coding-related dataset**, improving sequence understanding and reducing preprocessing inconsistencies by **~15%**.
- Applied LR scheduling, warmup, and weight decay, cutting overfitting by **~20%** and stabilizing training across 5 epochs.
- Achieved high inference confidence across intent/category tasks using optimized hyperparameters and best-model checkpointing.

Network Packet Traffic Analysis & Prediction | GRU + PPO || [LINK](#)

November 2024 - February 2025

- Processed a **150MB Wireshark dataset** and trained GRU models to predict protocol occurrences, reporting MAE/RMSE metrics across **20+ protocols**.
- Developed a PPO agent that achieved a stable reward score of **~1415**, demonstrating reliable policy-based traffic prioritization.
- Compared GRU forecasting with PPO-driven policy behavior to evaluate which method delivered more consistent traffic-flow control.

CERTIFICATES

Full-Stack Web Development Bootcamp (Udemy) | [CERTIFICATE](#)

July 2025

- Built multiple full-stack projects using HTML, CSS, JS, Node.js, and React during a **62-hour** developer bootcamp.

Big Data Computing (NPTEL – IIT Kanpur) | [CERTIFICATE](#)

November 2025

- Completed an **8-week IIT-led program** covering Hadoop/Spark pipelines and distributed storage, earning an **Elite+Gold certification with 91%**.

Data Structures & Algorithms in Java + 150 LeetCode Problems | [CERTIFICATE](#)

September 2025

- Practiced **150+ LeetCode problems** while implementing core DS & Algo concepts in Java.