

Balaji Ramadhurai

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EDUCATION

Manipal Institute of Technology

B.Tech in Computer Science and Engg. (Artificial Intelligence and Machine Learning)

Manipal, KA

Aug 2022 — May 2026

- GPA: **9.21/10.0** | Minor in **Natural Language Processing** | Pursuing a **B.Tech Honours** Degree
- Established a **1000+** member community for Cab Sharing on WhatsApp. Monetized the same by charging travel agencies for advertising and promotions.
- **Head of Debate** at the Literary, Debate, and Quiz Club - Led and mentored junior debaters, represented the college at **national tournaments** (online and offline), and **organized events**, including logistics planning.

WORK EXPERIENCE

Data Science Intern

May 2024 — July 2024

ElasticRun

Pune, MH

- Developed a **Speech to Insights** system that converted **low-resource Indic language-based call recordings** into **business insights** and linked the same to the live database. The pipeline involved transcribing, post-processing, translating, and insight extraction. Led to **more accurate demand forecasting of products**, and **reduced mistakes in phone-based ordering**.
- Maintained **detailed documentation** detailing all approaches tried – including traditional NLP, RAG based approaches, Fine-Tuning Local LLMs, and using prompt engineering on Cloud Based LLMs, **comparing and contrasting each option**, along with **providing all the code** for the same, **enabling the team to rapidly advance the work**.
- Presented multiple demos to the **CEO**, the **CTO**, as well as the **entire tech team of 50+ engineers**, which was **positively received**.

Software Engineering Intern

June 2023 — July 2023

Helper4U

Mumbai, MH

- **Upgraded search algorithms** through geocoding, augmenting the database to support the change, and replacing the geofenced system, resulting in a **better search experience** and **reduced overhead for the data team**.
- Created **design mockups with Figma** and iterated them with feedback from the team, which led to an **enhanced UI on the revamped website**.
- Provided feedback on the helper-facing app, resulting in an improved registration and onboarding process for new helpers.

PROJECTS

DebateGPT

- Created a **custom dataset of 150+ formatted debate transcripts**, then **fine-tune** an open-source LLM.
- Enabled **faster and more efficient training of juniors** and **made debate more accessible**.

ReceiptOCR

- Designed a **small and efficient receipt OCR system** using Computer Vision to **extract tabular menu items** and their prices from images of receipts.
- Performed a **comparative study** of various methods and their drawbacks and **summarized the results in a paper**.

AI Connect Four

- Used **Minimax and Alpha-Beta pruning** to develop a sophisticated AI opponent with varying difficulty by varying depth of the search.
- Implemented a simple simulation of the game using tkinter, to make it playable.

All-in-One Network Helper

- Wrote a **PowerShell Script** to **simplify driver and network management in Windows**, allowing the user to switch DNS, reset network cache, networks settings, or reinstall network drivers rapidly.

SKILLS

- **Basic:** Flutter, Dart, React, React Native, JavaScript, MongoDB, Express, Postgres, MySQL, AWS, Azure, Rust
- **Intermediate:** Object Oriented Programming, Data Structures and Algorithms, Java, SQL, System Design, PowerShell Scripting, Java
- **Advanced:** Git, Python, C++, C
- **Soft Skills:** Communication, Logical Thinking, Analysis, Critical Thinking, Organization, Logistics, Presentation