

Ishaan Romil

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EDUCATION

International Institute of Information Technology Hyderabad

Hyderabad, India

B.Tech in Computer Science and Engineering & MS in Computational Linguistics - CGPA: 9.08

July 2023 - May 2028

- **Coursework:** Data Structures & Algorithms, Design and Analysis of Algorithms, Data & Applications, Operating Systems & Networks, Linear Algebra, Discrete Structures, Probability and Statistics, Computational Linguistics, Automata Theory
- **Dean's List:** Recognized for outstanding performance in Monsoon 2023 and Spring 2024 semesters

EXPERIENCE

AcelPM - Coaching institute for IIM Indore's IPMAT entrance examination

May 2024 - July 2024

Coaching Instructor & Mock Interview Panelist

- Interviewed and mentored **24 candidates**, evaluating their general knowledge, subject expertise, and soft skills.

SRCC Finance & Investment Cell Finance Research Fellowship

June 2023

- Conducted in-depth research on diverse finance domains, including **technical analysis**, fundamental analysis, and investment strategies, culminating in a comprehensive article on Nigeria's economic developments.

PROJECTS

Word Embedding Technique Project - Tested the accuracies of different word embeddings

November 2024

- Conducted a comparative analysis of **Word2Vec**, **GloVe**, and **FastText** word embeddings on English and French datasets.
- Evaluating embedding performance across **Named Entity Recognition**, **POS tagging**, **sentiment analysis** tasks.
- Designed and implemented a **BiLSTM** layer using **TensorFlow** and **PyTorch** for robust downstream task processing.

C-Shell - Implemented a Unix shell from scratch in C

August 2024

- Incorporated key terminal functionalities such as I/O redirection, signal handling, and **background process management**.
- Implemented **networking capabilities**, enabling the shell to fetch and display man pages from the internet.

POS Tagging Model Project - Tested the accuracies of different models on speech data

March 2024

- Collected language data for 3 different languages with participants from 3 continents for testing purposes.
- Implemented **HMM** and **LSTM** models from scratch using **PyTorch** and used an existing **CRF** model from **CRF++** toolkit.
- Compared the different models based on precision, recall, and F1 score using **Scikit-Learn** and provided an in-depth analysis.

Image to Video Application - Full-stack web development group project

March 2024

- Worked in a team of three to implement a full-stack web application using **Flask** backend and **HTML/CSS** frontend.
- Enabled users to convert uploaded images into fully customizable videos with transitions, music, and personalized settings.
- Made use of a third-party database to store and retrieve images using **SQL**.

AWARDS AND HONORS

Megathon: 2nd Runner-up - Hyderabad's largest student-run hackathon

October 2024

- Competed with 30 teams, working on a prompt by Qualcomm using **QIDK** and **Kotlin**.

Bifrost: Runner-up - Bangalore's largest commerce fest

July 2022

- Competed with 36 teams in various financial tasks related to technical analysis, portfolio management, and a case-study.

Cambridge ICE: Distinction - Academic award for exceptional performance in IGCSE

July 2021

SKILLS

Machine Learning: Python3, PyTorch, Scikit-Learn, OpenCV, NumPy, Pandas, TensorFlow, Keras, Matplotlib, NLTK

Programming Languages: HTML, CSS, JavaScript, Flask, SQL, C, C++, Assembly x86, Bash, Kotlin

Miscellaneous: Git, Regex, Apertium Ittoolbox, Arduino, LaTeX, CRF++, QIDK, Content Writing, Technical Analysis

LEADERSHIP AND CO-CURRICULAR ACTIVITIES

Assistant Coordinator - Debate Society, IIITH

March 2024 - Present

- Coordinated logistics for events attended by over **100 participants**, such as the annual **Felicity Debate Competition**.

Content Writing & Logistics Team Member - E-Cell, IIITH

January 2024 - Present

- Led stage and light procurement for **FAIL?**, E-Cell Hyderabad's flagship event, attended by **600 individuals**.
- Created content that reached over **10,000 people** through the E-Cell Instagram page and E-Cell Newsletter.

Secretary-General - Treamis MUN

September 2022 - November 2022

- Organized the annual Model UN conference hosted by Treamis World School, with **250 participants** and managed **20 people**.