

HARSH RAJ

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INTERESTS

Artificial Intelligence, Machine Learning, Large Language Models, Natural Language Processing, Application Development, Database Engineering, Full-Stack Development

EDUCATION

Bachelor of Technology, Cluster Innovation Centre, University of Delhi **2021 - Expected 2025**
Major in Information Technology and Mathematical Innovation with Minor in Management **9.13/10**

Diploma in Computer Application, Crescent Technical Institute **Jan 2021 - July 2021**

Intermediate, Kendriya Vidyalaya Danapur Cantt **2020**
English, Mathematics, Computer Science, Physics, Chemistry **92.4%**

EXPERIENCE

Software Developer Intern **May 2023 - Aug 2023**
Beyond Exams **New Delhi, IND**

- Using Flask and JavaScript APIs to create the backend of an AI based website for resume review.

App Developer **Sept. 2022 - May 2023**
Cluster Innovation Centre **New Delhi, IND**

- Developed an android application and website using Flutter and Firebase to facilitate connections between blood donors and recipients in Delhi University and surrounding areas.
- Key Learning – Flutter, Firebase, HTML, CSS, JavaScript, UI/UX Design, Real-time Chat, Testing

Software Developer Intern **Jun 2022 - Nov 2022**
Beyond Exams **New Delhi, IND**

- Extracted, cleaned, and preprocessed a novel data set of YouTube videos for a classification pipeline.
- Built a website and used Natural Language Processing to label a YouTube video as educational or non-educational.

PROJECTS

Analyzing Hallucination in LLMs in ML/AI **Aug 2023 - Present**

- Investigating the underlying causes of hallucinations in LLMs
- Developing strategies to mitigate hallucinatory responses and enhance the reliability and trustworthiness of the model.

Retirement Age Prediction of Test Batters **Jan 2023 - May 2023**

- Used a Long Short Term Memory Models to predict the retirement age of Test Batters with an accuracy of 94%.
- Acquired comprehensive data sets detailing the career various Test Batters from eight different countries.
- Conducted rigorous data preprocessing to ensure data quality and normalized data for consistent scale.

SKILLS

Python, Flask, Flutter, Firebase, C/C++, Matlab, HTML, CSS, PHP, MySQL, R, Java, Mathematica, ArcGIS

AWARDS, ACHIEVEMENTS AND VOLUNTEERING

- Attended the induction program of Design Your Degree, Jammu University as a speaker on Project Based Learning.
- Volunteered and mentored in a capacity-building workshop for teachers on Implementation of NEP through curriculum in Higher Education organized by CIC, DU in collaboration with J & K Higher Education Council.
- Volunteered National Seminar in Higher Education through Public-Private-Partnership Model organized by CIC.
- Member of Organising committee of CONVOKE 5.0, Techfest at CIC, DU.
- Secured a Gold Medal for a creative advertisement (AD-Mad) at INFOX 22, an event hosted by GGSIPU.
- Achieved a track prize and secured the third-runner up position in an online hackathon organized by Hack2Educat.
- Organized a department-wide Treasure Hunt (Cluster Ingenuity Chase) contest at CIC, DU