



ARNAV SINGH

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[GitHub](#) [LinkedIn](#) [Website](#) [Codeforces](#)



Education

Indraprastha Institute of Information Technology, Delhi
B.Tech(CSE) | 2021-2025

CGPA: 7.24
(till 6th Semester)

SGMS, Delhi
CBSE, Grade 12, PCM + P.E. | 2019-2021

Percentage: 89

Work Experience

Indian Oil Corporation Limited (Summer Intern) (May,24 – July,24)

Guide: [Mr. A.P. Verma](#), DGM (Strategic Information Systems)

- Part of the High Impact Analytics team for **Project i-Drive** where I used **Qlik Sense** to create dashboards and support decision-making processes, along with consultants from PricewaterhouseCoopers
- Identified 4 critical areas for optimization in the **E2E analysis** for the e-tender system and conducted **Google Lighthouse**-based audits.

[Link to the Certificate](#)

CloudLabs IIIT Delhi (Software Development Intern) (Jan,24 – May,24)

Guide: [Dr. Sumit J. Darak](#), Dean of Academic Affairs, IIIT Delhi

- **JSON Handling and Database Management** (Python, SQL, Gspread): Refactored existing code to resolve JSON parsing errors in query submissions and incorrect database calls, reducing system crashes by over 50%.
- **Computer Vision** (OpenCV) Engineered a live video streaming system utilizing 12 cameras and integrated it with a frontend server and a low-level control program.
- Received **funding from the Ministry of Science and Technology** under the Prayas scheme and **obtained a patent** under IoT and hardware-software interaction 2024

[Link to the site](#)

Projects

Hate Speech Implication Generation (Jan,24 – May,24)

Guide: Dr. Md. Shad Akhtar, Assistant Professor, IIIT Delhi

Team Size-4

- Implemented tokenization, lemmatization, and vectorization for preprocessing and feature extraction, using LIME for model interpretability on a dataset of 150,000 annotated posts.
- Successfully utilized evaluation metrics, including BLEU, ROUGE-L, and BERTScore, to assess the quality of generated stereotypes, demonstrating effective model performance and text generation capabilities.
- Developed a comprehensive method to detect hate speech using SVM, XGBoost, BERT, GPT-2, and T5. (BERTScore: 0.88)

[Link to the Repository](#)

Geo-Localized News App using Position Sensor Fusion

(Feb,24 – May,24)

Guide: Dr. Arani Bhattacharya, Associate Professor, IIIT Delhi

Team Size-1

- Utilized Kotlin, XML, View Layouts, and JSON Parsing with the News API for real-time updates and comprehensive news coverage.
- Incorporated geo-fencing and position sensor fusion to deliver region-specific news, enhancing user relevance and engagement.

[Link to the Repository](#)

End-to-End Cab Booking System

(Jan,23 – April,23)

Guide: Dr. Vikram Goyal, Professor, IIIT Delhi

Team Size-1

- Used Python and Django frameworks, integrating MySQL for database management and RESTful APIs for seamless communication.
- Implemented transaction management protocols, dynamic ride booking, and fare calculation algorithms, integrating OLAP for real-time analytics and reporting.

[Link to the Repository](#)

Positions of Responsibility

- Philosoc IIIT Delhi | **Core Member** (May,22 – Present)
 - As a core member of the university's Philosophy Society, I organized over 15 events with 50+ attendees each and assisted in allocating resources with the club coordinators.
- 'Eyes_In_wEIRD_Boredom' Newsletter | **Editor** (April,24 – Present)
 - I recently assumed the role of editor in the newsletter and am currently vetting submissions for articles to be included in the first issue, slated for August 2024.
- Stack Overflow | **Review Queue Moderator** (Aug,23 – Present)
 - Having impacted 136,000 users on Stack Overflow, I have the privilege of moderating the review queue, daily reviewing up to 80 posts to ensure quality and relevance.

Awards and Achievements

- **GRE General Test:** Scored 327/340 (Q-170, V-157).
- **IELTS Academic Test:** Achieved an 8 Band.
- **Codeforces:** Rated 1329 as of June 2024. [[Arnav.Singh](#)]
- **IBM Quantum Challenge 2024:** Completed the challenge with an 'Advanced' flair.
- **IIIT Delhi Wikiracing Contest 2024:** Ranked 1st in the university
- **ICAR AIEAA 2021:** Ranked 3rd out of 1,22,993 participants.

Interests and Hobbies

- I have been an amateur tennis player for 10+ years and participated in multiple district-level competitions, which helped develop perseverance and teamwork.
- I regularly help organize reading sessions to analyze articles from The Spectator and The Washington Post; honed critical thinking and communication skills.
- I am pursuing a minor in economics. As part of this minor, I worked under former National Statistical Commission member Prof. JV Meenakshi to study the causal relationship between GDP and 13 groundwater quality indicators from 2000 to 2016.

[Link to the study](#)

Declaration: The above information is correct to the best of my knowledge.

ARNAV SINGH

Date: July 5, 2024