

# ROHAN CHATURVEDI

SOFTWARE ENGINEER

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Examination	Majors	Institute	Year	CGPA/%
10th Standard	Science	CMS	2020-2024	98.8
12th Standard	Maths and Science	CMS	2018-2020	98.75
Undergraduate	Mathematics and Computing	IIT Delhi	2022-Present	9.8/10

## SUMMARY

As a full stack web developer passionate about AI/ML, I merge dynamic web design with cutting-edge technologies. My expertise creates user-centric experiences while integrating AI/ML for predictive analytics, personalized content, and automation. Bridging innovation and user intuition, I craft the future of web development.

## SCHOLASTIC ACHIEVEMENTS

- Secured a all india rank of **266** in JEE Advanced 2022 [August'22]
- Secured a all india rank of **432** in JEE Mains 2022 [July'22]
- Cleared KVPY with a rank of **156** in SX and **726** in SA [May'22]
- IOQM, IOQP and IOQC qualified with national ranking within 1% [November'21]

## KEY COURSES UNDERTAKEN

### Mathematics and Statistics

- Calculus(MTL100), Linear Algebra and Differential Equations(MTL101), Discrete Mathematics(MTL180), Linear Algebra(MTL104), Probability and Stochastic Processes(MTL106)\*, Optimisation(MTL103)\*

### Computer Science

- Introduction to Programming(COL100), Data Structures and Algorithms(COL106)

### Electrical and Electronics

- Introduction to Electrical Engineering(ELL101), Principles of Electronic Materials(PYL102), Digital Electronics(ELL201)\*

## TECHNICAL SKILLS

<b>Programming</b>	C, C++, Java, Python, JavaScript, R, Solidity, SQL ,MongoDB
<b>Development</b>	ExpressJS, NodeJS, ReactJS ,Angular , NextJS ,Bootstrap ,MUI
<b>Machine Learning</b>	RNN, CNN, Deep Learning, Attention, Transforers, OpenCV, YULOV, Standard Regression, Classification, Clustering and Recommendation Algorithms

## PROJECTS

### Algorithmic Projects

**Information Retriever** | Text Ranking, BM25+, TF-IDF, Rake      October 2023 - November 2023

- It's a complete algorithmic approach to retrieve information for a paragraph summary or based on some queries
- Its extracts keywords using Rake algorithm and then using BM25+ the bad paragraphs are filtered and the goods are extracted finally using graph based algorithms similar to text rank for queries and exactly text rank for summary

**Expression Compiler** | C++, make, data structures      Aug 2023 - Sep 2023

- A compiler for evaluating expressions of all forms with a special support for infinitely large numbers which are dealt with using arrays, vectors and strings for all kind of operations

### Machine Learning

**SpamODetector** | Python, Keras, Tensorflow, RNN, Attention, NextJs, Tailwind      Jun 2023 - July 2023

- It's a trained ml model for detecting spam messages with a release in api endpoint for combining with email
- A ui interface interface has also been created using NextJs and Tailwind to enhance the user experience and to give him a try at using it

- Natural Language Enhancer** | Python, PyTorch, Transformers, Flask Aug 2023 - Sep 2023
- A nlp model to pick and upgrade sentences based on the given query to improve the semantics
- VoiceToText** | Flutter, GoogleTranslate, Attention Aug 2023 - Sep 2023
- A Flutter app for translating voice to speech with a special cover of playing the sign language for the deaf
  - Special support for all major languages across the world using

## Development

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- IIT Delhi Career Portal** | MongoDB, ExpressJS, ReactJS, Material UI Ongoing  
EDC (Expected by Dec '23)
- It's the IIT Delhi career portal which acts as a link between the Startups and the students
- IIT Delhi PhD portal** | MySQL, NodeJs Ongoing  
CSC (Expected by Jan '23)
- It's a project involving the creation of a portal for PhD students with easy access in the future
- Parking** | MERN stack, Tailwind April 2023 - May 2023
- It's a commercial project taken on the idea of the creation of a portal for reserving parking at commercial places.

## POSITIONS OF RESPONSIBILITY

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- Executive** Aug 2023 - Present  
*DevClub*
- Associated with multiple projects within the club
  - Associated with organising and participating hackathons not only across campus and but also nation
- Technical Executive** May 2023 - Present  
*Board of Recreation and Cultural Activities*
- Website Maintenance
  - App development for the club
- Technical Executive** August 2023 - Present  
*Board of Student Welfare*
- Website Development for the club

## ACHIEVEMENTS & CERTIFICATIONS

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- Winner of Best Frontend Developer DSOC
- Winner of IIT Delhi Codefreshers
- Winner of IIT Delhi Hackathon for best Discord Bot
- Codeforce max rating: 1642(mysteriocoder)
- Codechef max rating: 1721(mysteriocoder)
- Course:Machine Learning A-Z™: AI, Python & R + ChatGPT Bonus [2023]
- Course;Modern Computer Vision™ PyTorch, Tensorflow2 Keras & OpenCV4