

## Abhinav Jha

2K22/EE/10

Second Year B.Tech Student

Electrical Engineering

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### Academic Details

Year	Degree	Institute	Percentage/CGPA
2022-Present	BTech in Electrical Engineering	Delhi Technological University (Delhi College of Engineering)	CGPA = 9.25/10 <b>Departmental Rank 9</b>
2022	Class XII CBSE - (PCM with Computer Science)	Ramakrishna Sr. Sec. School, New Delhi	<b>91.6%</b> 99 in Mathematics 94 in Computer Science
2020	Class X CBSE	Ramakrishna Sr. Sec. School, New Delhi	<b>88.6%</b> 100 in Mathematics

### Experience

- EZINORE PVT. LTD.** *Feb 2024 - Present*  
*Software Development Engineer (SDE)*  
At Ezinore Pvt Limited, I specialize in innovating **AI-based energy management solutions**. Leveraging **React Native** for frontend and **Node.js** for backend, I develop comprehensive dashboard applications and polished product websites. My role involves establishing communication **between GSM modules and Node.js** using **AWS IoT**. I focus on crafting user-friendly interfaces that offer actionable insights for energy optimization, ensuring seamless integration and efficient performance across all platforms.
- PHYSICSWALLAH SKILL** *Mar 2023 - May 2023*  
*Web Developer (MERN)*  
My **inaugural internship** provided me with invaluable insights into **end-to-end project solutions**. I gained hands-on experience in designing both **high-level and low-level solutions**, including **wireframing** and other problem-solving techniques. Notably, I successfully delivered a **comprehensive web development project**, affording me the opportunity to deeply explore various web concepts. Leveraging cutting-edge technology, I implemented the **MERN stack (MongoDB, Express.js, React.js, Node.js)** to craft a dynamic website that further enriched my learning journey.

### Skills

- Programming Languages:** C/C++/C#, Java, Python, Javascript, Flutter, Kotlin
- Frontend:** React Js, React Native, HTML, CSS, Javascript, Streamlit, Electron JS
- Backend:** Express Js, Node Js, Django, Flask, Firebase.
- Databases:** MongoDB, MYSQL, Postgre SQL
- Other Skills:** Scikit Learn, Numpy, Pandas, Git/Github, Figma

### Major Projects

- STREAMVID - MOVIE STREAMING** GDSC DTU  
*React - Flask Project* *Dec 2023 - Jan 2024*  
*StreamVid offers cutting-edge movie streaming Website and Mobile App with **React.js, React Native, Flask, MongoDB, Redux Toolkit, and CSS**. Enjoy seamless user experience, dynamic **front-end with React.js**, responsive **back-end with Flask**, reliable **data management with MongoDB**, and **optimized state management with Redux Toolkit**, all wrapped in a sleek CSS design.*
- BUY MARKET - ECOMMERCE PLATFORM** PW Skills  
*MERN Stack Project* *Dec 2023 - Jan 2024*  
*The MERN Stack Ecommerce Project ( Buy Market) with user authentication, clean UI, Cart System which uses **react redux** for state management, **JWT Tokens**, **Nodemailer** for sending Email, **Recharts Js** for charts and many more technologies.*

## Other Projects

- **DIET AND HOME WORKOUT RECOMMENDATION SYSTEM** Prof. Sanjay Kumar, CSE DTU  
*Machine Learning Project* Jan 2024 – Apr 2024  
Personalized Diet & Home Workout System tailors fitness plans based on **age, height, weight** using **advanced algorithms & Streamlit UI**. Later, He awarded me with the **letter of recommendation (LOR)**
- **SPAM CLASSIFIER** Prof. Sanjay Kumar, CSE DTU  
*Machine Learning Project* Dec 2023 – Dec 2023  
Developed a spam classifier using **Python's sklearn** with **Multinomial Naive Bayes**, integrated into a Streamlit website, achieving **97% accuracy** and **100% precision**.
- **MOVIE RECOMMENDATION** Prof. Sanjay Kumar, CSE DTU  
*Machine Learning Project* Nov 2023 – Nov 2023  
Created movie recommendation website using **Python & Streamlit**. Trained ML model on **5000 movie records** for suggesting similar movies using **cosine similarity**.
- **180 DC Hindu Website** 180 Degrees Consulting Society, Hindu College  
*React – Firebase – Redux Project* Jul 2023 – Aug 2023  
Developed Hindu College 180 Degrees Consulting Society website with **React, Firebase Database, Storage, and Email.js** for **dynamic, secure functionality**.
- **TRIPIT - TOUR PLANNER** CodeClause , Pune  
*React Native – Firebase – Redux Project* Oct 2023 – Oct 2023  
Built **React Native app** with **Firebase backend, Redux Toolkit** state management, offering hotel booking, authentication, favorites, and more features.
- **CV GENERATOR APP** CodeClause , Pune  
*React Project* Sept 2023 – Sept 2023  
Developed user-friendly CV generator app in **React Js**, facilitating dynamic content creation, streamlining **resume building** with professional interfaces and customization options.

## Scholastic Achievements

- Secured **Departmental Rank 1** in III semester of Engineering out of **305** candidates with **9.89 SGPA** (2024)
- Secured **Departmental Rank 5** in I semester of Engineering out of **305** candidates with **9.40 SGPA** (2023)
- Cracked **JEE Advanced 2022** and out of **2.6 Lakhs** candidates (2022)
- Secured **96.4%ile** in **JEE MAINS 2022** out of **10,26,799** candidates (2022)
- Secured **3<sup>rd</sup> Rank** in School by scoring **91.6%** in class **12<sup>th</sup> PCM** with **99/100** marks in **Mathematics** (2022)
- Secured **1<sup>st</sup> Rank** in **Mathematics** in school by scoring **100/100** with overall **88.6%** in class **10<sup>th</sup>** (2020)

## Relevant Courses

- **Research Intern** under Prof. Sanjay Kumar, CSE DTU in the field of Machine Learning and Deep Learning.
- **Computer Science:** Programming Fundamentals (C language), DSA using Java (Coding Blocks)
- **Mathematics (I and II semester):** Real Analysis, Differential Equations, Linear Algebra, Matrix Theory, Laplace and Fourier Transform, Vector Calculus.
- **Numerical and Engineering Optimization (NEOM):** Numerical Methods, Constrained and Unconstrained Optimization, Intelligent Optimization Techniques: Partial Swarm Optimization, Fuzzy Neural Logic, Ant Colony Optimization.

\*Courses to be done in **Upcoming Semesters (Summer 2024 – Summer 2026)**.

## References

- **Dr. Sanjay Kumar**, Assistant Professor, Department of Computer Science and Engineering, Delhi Technological University, +91- 989-9846345, sanjay.kumar@dtu.ac.in.