

# KSHITIJ AGARWAL

Moradabad, India

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## EDUCATION

### B. Tech : Computer Science and Technology

2021 - Present

Dr.BR.Ambedkar National Institute of Technology - **CGPA - 7.78**

Jalandhar, Punjab

### Class XII : Science (PCM)

2019 - 2020

Springfields College - **Percentage - 96.3%**

Moradabad, Uttar Pradesh

## WORK EXPERIENCE

### Defence Research and Development Organisation (DRDO)

06/2024 - Present

Trainee

- Developing an eBPF-based system for filtering TCP packets at the NIC level, enhancing network security and performance.
- Optimizing kernel-level packet processing by implementing and fine-tuning eBPF programs, demonstrating proficiency in low-level system programming.

### Dr.B.R.Ambedkar National Institute of Technology

11/2023 - 05/2024

College Online Guesthouse Booking System Project

- Spearheaded the development of the responsive and user-friendly React.js frontend.
- Contributed to the integration of the frontend with the Express.js backend and MongoDB database, ensuring seamless data flow and synchronization.

## PROJECTS

### Cryptocurrency Price Tracking and Charting [🔗](#) | React

- Optimized website speed using **Amazon CloudFront CDN** and **S3**, reducing Largest Contentful Paint by 83% (4.7s to 0.8s) resulting in overall increase in performance from 74% to 99%.
- Led development of React-based Bitcoin price tracker, leveraging Node.js and JavaScript, bolstering data-driven investor decisions.
- Improved accessibility via seamless integration of third-party APIs, delivering multi-currency Bitcoin price updates for informed trading.

### Documents Verification and OCR System [🔗](#) | ML, Python

- Developed models for authenticating Aadhar Card, PAN Card, and Cheque Leaf.
- Integrated the models into applications to verify document authenticity.
- Created an OCR application using Python and Flask to extract essential information from authentic documents.

### Connectify [🔗](#) | React, Express, Node, MongoDB

- Created an intuitive and appealing UI for a social media app with React.js, allowing users to connect, share, and engage seamlessly.
- Developed secure RESTful APIs with Node.js, Express.js, and MongoDB integration for user management and data handling.
- Implemented real-time chat functionality with socket.io, enabling instant user communication.

## COURSEWORK / TECHNICAL SKILLS

- **Languages:** C++, Java, SQL
- **Databases:** MySQL, MongoDB
- **Course Work:** Data Structures, Algorithms, DBMS, OS, Web Development, Machine Learning
- **Technologies/Frameworks:** HTML5, CSS, JavaScript, React.js, Node.js, Express, Git, GitHub

## CERTIFICATES

- **Node.js, Express, MongoDB & More: The Complete Bootcamp 2024** | Udemy [🔗](#)  
Issued: Jan 2024
- **Complete A.I. & Machine Learning, Data Science Bootcamp** | Udemy [🔗](#)  
Issued: April 2024