

# KSHITIJ AGARWAL

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## EDUCATION

### B. Tech : Computer Science and Technology

*Dr.BR.Ambedkar National Institute of Technology - CGPA - 7.76*

2021 - Present

*Jalandhar, Punjab*

## WORK EXPERIENCE

### Defence Research and Development Organisation (DRDO)

06/2024 - 07/2024

Trainee [🔗](#)

- Engineered an advanced eBPF-based network packet filtering system, significantly improving network security and efficiency..
- Successfully embedded eBPF programs into the Linux kernel, demonstrating deep technical expertise.

### 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

- Used **AMAZON S3** and **CloudFront** to cache high-quality and large-size images for better user performance.
- 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.

### 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, JWT authentication, middleware, and MongoDB integration for user management and data handling.
- Integrated a real-time chat application using socket.io, providing users with instant and interactive communication within the platform.

### 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.

## COURSEWORK / TECHNICAL SKILLS

- **Languages:** C++, Java
- **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** [🔗](#)  
*Issued: Jan 2024*
- **Complete A.I. & Machine Learning, Data Science Bootcamp** [🔗](#)  
*Issued: April 2024*