Kshitij Agarwal

Moradabad, India

EDUCATION

B. Tech: Computer Science and Technology

2021 - Present

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

 $Jalandhar,\ Punjab$

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

- 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
- Soft Skills: Problem Solving, Communication, Teamwork, Resilience, Time Management, Versatile

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