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 - 7.76*** *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