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
- **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