Mohit Bohra

Bachelor's of Technology
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EDUCATION

•**Bachelor's of Technology in Computer Science and Engineering**　　　*2022-26*
Graphic Era Hill University, Dehradun　　　CGPA: 7.83

•**Intermediate**　　　*2021-22*
Whitehall School,Haldwani　　　79.66 %

•**High School**　　　*2019-20*
Whitehall School,Haldwani　　　82.83 %

PERSONAL PROJECTS

•**EcomHub**
A scalable E-commerce delivery application

- Developed and Deployed a scalable e-Commerce delivery app which features product search, order tracing, and an intutive, responsive interface, boosting customer satisfaction by **30 %**.
- **Core Technologies Used:** MongoDB, Express.js, React.js, Node.js , HTML5, Javascript ES6, TailwindCSS.

•**Realtime Chat App**
A React-based messaging platform

- Real-time chat messaging with timestamps, user-friendly responsive design, and Google authorization and email verification using **MongoDB**.
- Accomplished **35 %** user engagement and session time growth through streamlined UI/UX design and instant real-time messaging capability with less than a second latency.
- Improved app performance by **60 %** with **99.9 %** success of message delivery and **40 %** code redundancy.
- **Development Stack:** Bootstrap, HTML5 ,Firebase, React, Redux, Chakra UI, and JavaScript

•**Transpiler**
A MarkDown to MarkUp(HTML) transpiler.

- Designed a source-to-source code compiler that converts **Markdown syntax** to **Markup(HTML) Syntax.**
- Implemented compiler components such as Lexical Analysis, Syntax Parsing, and Code Generation to automate code translation tasks.
- Automatic static web page made from the Markdown file given. Give a conversion accuracy of **85 %** .
- **Tools and Technologies:** Python , Regular Expressions , YAML , CLI Development .

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, Java , Javascript ES6, HTML+CSS
Libraries : C++ STL, Python (Pandas,Numpy,OpenCV,seaborn,Tkinter)
Web Dev Tools: Nodejs, VScode, Git, Github
Frameworks: ReactJs ,Scikit-learn , PyTorch , TensorFlow
Cloud/Databases:MongoDb, Firebase, Relational Database(Oracle)
Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.
Areas of Interest: Web Design and Development, Machine learning and AI.

ACHIEVEMENTS AND CERTIFICATIONS

•**NSS :**Earned the NSS 'B' Certificate　　　*Nov 2024*

- Helped to attract close to 300 attendees to the event.
- leading 30+ volunteers in community outreach initiatives, including school visits, cleanliness drives, and cloth donation campaigns with 100+ service hours and volunteer management.

•**Research Paper :**Co-authored a research paper　　　*Nov 2024*

- Built and deployed machine learning models, Random Forest (99%) and Gradient Boosting (96%), to detect solar panel defects based on real-world operating data.
- Improved model performance using hyperparameter optimization with GridSearchCV, attaining an F1 score of 0.948 and verifying results with confusion matrices for accurate classification accuracy.