ADEEB KHAN

 AdeebKhan25 | Adeeb Khan | ✉ adeebkhankhan25@gmail.com | 🌐 www.adeebkhan25.vercel.app
📞 +91 7052111974

EXPERIENCE

Software Intern — July 2024 – Present
Marvell Technology — *Pune, Maharashtra*

- Collaborated on developing an AI tool utilizing **Amazon Bedrock** enabling the team to formulate test cases directly from requirements and SOW, increasing team efficiency by **25%**.
- Verified SSD controller software, identifying **15+** bugs and reducing customer complaints by **30%**.
- Tested new firmware features for SSD controllers, saving large costs and reducing debugging time by **20%**.
- Automated **50+** test cases, streamlining regression testing and reducing manual testing time, saving **8+ hrs.** per week.

EDUCATION

Motilal Nehru National Institute of Technology Allahabad — Prayagraj, UP
M. Tech (Computer Science & Engineering) — *Aug. 2023 – Present*
CPI: 9.1

Bundelkhand Institute of Engineering & Technology — Jhansi, UP
B. Tech (Computer Science & Engineering) — *Aug. 2018 – May 2022*
CGPA: 8.54

PROJECTS

AI Music Generator | *Python, Numpy, Tensorflow, Keras, Matplotib* — Link
- Developed an AI music generation model using neural network (LSTM) to create unique MIDI files.
- Implemented optimized training to save only the best model weights for further training and music inference.
- Enabled customization of model, dataset, and parameters for diverse musical style.
- Used Tensorflow and Keras for creating the model and Google Colab for training it.

Messenger | *React, Tailwind CSS, NodeJS, Express, MongoDB, WebSockets(WS)* — Link
- Developed a full-stack chat application using React, Express, and WebSockets for real-time communication.
- Implemented secure authentication with JWT cookies and bcrypt for password storage.
- Enabled direct file and image sharing through the chat UI, streamlining communication.
- Managed dynamic user messaging with MongoDB Atlas for scalable database support.

WeatherApp | *React, Tailwind CSS, JavaScript, OpenWeatherMap API* — Link
- Developed a user-friendly weather application using React and the OpenWeatherMap API for real-time updates.
- Implemented features to view current weather conditions for any city globally.
- Ensured responsive design for a seamless user experience across all devices.
- Utilized Tailwind CSS to create a beautiful and modern design, enhancing the overall aesthetic of the application.

SKILLS

Languages: Python, C, C++, JavaScript, HTML/CSS
Frameworks: React, Node.js, Express, JQuery, Pytest
Developer Tools: VS Code, Git, Github, Linux, Gerrit, Postman, JIRA
CS Fundamentals: OS, DBMS, Compiler Design, Computer Networks, OOP, Software Engineering, System Design
Database: SQL, MySQL, SQLite, PostgreSQL, MongoDB
Coding: Data Structures & Algorithms, Algorithm Design, Complexity Analysis, Competitive Programming
Machine Learning & AI: Supervised Learning, Unsupervised Learning, Deep Learning, Computer Vision, Generative AI

ACHIEVEMENTS

- Published a research paper titled **Early Identification of Suicide-Susceptible Students using Computational Techniques**, which proposes a Machine Learning based solution for detection of suicidal students.
- Qualified **GATE-2022** with an All India Rank of **2008**.
- Achieved a contest rating of **1049** on Codeforces, with earning a badge of Newbie.
- Solved **350+** DSA problems on platforms like Leetcode, GFG and Coding Ninjas.