TAVAHEED TARIQ

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[Email](mailto:) ⋄ [linkedin]() ⋄ [Portfolio]() ⋄ [Coding ninjas]() ⋄ [Github]()

EDUCATION

National Institute of Technology Srinagar, Srinagar   Nov 2022 - present
Bachelor of Technology(B-Tech) Information Technology   CGPA: 9.04

MPML Higher Secondary, Srinagar   Dec 2019 - Dec 2021
HSC(10+2) PCM   CGPA : 9.82

EXPERIENCE

Research Intern - IoT and Embedded Systems   July 2024 - August 2024
Indian Institute of Technology (IIT) Roorkee   *Roorkee, India*

- Studied advanced IoT architectures, cloud integration (AWS IoT, Azure IoT), and event-driven systems for scalable IoT applications.

- Explored security in IoT, including Software-Defined Radio (SDR) integration and cryptography in embedded systems.

- Gained experience in IoT device management, integration techniques, and real-time data analytics for IoT-generated data.

PROJECTS

Machine learning/Deep learning

- Implemented and compared various ML models to classify gamma-ray data from the MAGIC telescope. [(Github)]()

- Developed a sentiment analysis model to classify IMDB movie reviews as positive or negative. [(Github)]()

- Engineered a CNN for real-time face mask detection using TensorFlow, achieving high accuracy in classifying mask usage in diverse facial images.[(Github)]()

- Utilized the pretrained MobileNetV2 to distinguish between images of dogs and cats with high accuracy. [(Github)]()

Web Development

- Created an engaging desktop friendly racing game using HTML, CSS, and JavaScript.[(Click)]() [(Github)]()
- Created a dynamic Web Application, designed for penetration testing endeavors. [(Github)]()
- Developed a sleek and intuitive frontend for a cryptocurrency dashboard.[(Click)]() [(Github)]()
- Created a realtime chat web application that allows you to chat in realtime. [(Github)]()

Kernel Hacking

- Modified linux kernel to add new system calls.Compiled, installed and tested the modified kernel [(Github)]()

- Developed a feature-rich Unix-like shell in C, implementing command execution, I/O redirection, piping, and built-in commands with robust error handling and signal management [(Github)]()

- Enhanced the xv6 operating system by developing and integrating custom system calls [(Github)]()

TECHNICAL SKILLS

Core	DSA, OS, DBMS, OOPs
Programming	C, C++, Python
Web Development	HTML, CSS, JavaScript, Tailwind CSS, ReactJS, Node.js, Express.js, MongoDB, MYSQL
Tools	Figma, Git, Github, Postman, LaTeX, Bash, Docker
Operating Systems	Windows, Kali Linux, Ubuntu, Parrot Linux
Other	Machine Learning, Deep Learning, Web Scraping, Web Automation