Tushar Kumar

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Education

Bachelor of Technology (B.Tech) in Computer Science   2022 – Present
Graphic Era Hill University, Dehradun
Current GPA: 7.89 / 10.0

Technical Skills

- **Programming Languages:** C++, C, PHP, Python, Java, JavaScript
- **Web Technologies:** React, Node.js, HTML5, CSS3, REST APIs
- **Databases:** MySQL, MongoDB
- **Developer Tools & Concepts:** Git, GitHub, VS Code, Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Identity and Access Management (IAM)

Projects

Virtual Exam Environment (Kiosk Mode)   GitHub
C++, System Programming

- Engineered a secure examination system that locks down system resources, preventing access to unauthorized applications and mirroring platforms like TCS iON.
- Applied advanced C++ techniques to intercept and block system-wide key combinations (e.g., 'Alt+Tab'), achieving 100% restriction accuracy in all test scenarios.

Fake News Detection (Machine Learning)   GitHub
Python, scikit-learn, NLP

- Built a machine learning model using TF-IDF vectorization and Logistic Regression/Naive Bayes to classify news articles as real or fake.
- Improved accuracy and F1-score by applying stratified train-test splits and hyperparameter tuning.

Bright Brain (AI Tutor Chatbot)   GitHub
PHP, JavaScript, ChatGPT API

- Developed an intelligent AI tutor chatbot using PHP and JavaScript, integrating the ChatGPT API to provide simplified explanations of complex topics for users.
- Deployed in a Unix/Linux environment, designing optimized data structures that contributed to a 30% improvement in average response times.

Music-Zone (Music Streaming Website)   GitHub
PHP, JioSaavn API, JS

- Built a full-stack music streaming platform featuring dynamic search, autoplay, and a responsive UI for seamless desktop and mobile experiences.
- Successfully integrated the third-party JioSaavn API to fetch and stream music data, managing asynchronous calls to ensure smooth playback.

Achievements & Certifications

- **2nd Runner-Up, HACK-O-HOLIC '24:** Secured a top-3 finish among 50+ teams in a 24-hour hackathon, winning a cash prize of 7,000.
- **Certification in Cyber Security:** Completed training on modern security tools, techniques, and countermeasures.
- **Certification in Android Mobile Application Development:** Gained proficiency in building and deploying native Android applications.