Ishu Raj

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Education

Indian Institute of Information Technology Nagpur, Maharashtra, India   Dec 2021 - May 2025
B.Tech in Computer Science and Engineering
Relevant Courses : Data Structures and Algorithms (DSA), Operating Systems(OS), Object Oriented Programming (OOPs), Computer Networks(CN), Database Management System(DBMS)

Experience

Defence Research & Development Organisation (DRDO)   Dec 2023 - Jan 2024
Research Intern, SAG Lab, Delhi   *Python, Django, Linux, Machine Learning*

- Contributed to the Scientific Analysis Group (SAG) Lab at DRDO within the cybersecurity domain, specializing in targeted Vulnerability Assessments for web applications using Machine Learning.
- Applied advanced Machine Learning techniques, including Convolutional Neural Networks (CNN), Naive Bayes, Logistic Regression, and Decision Trees, to identify and mitigate SQL injection and Cross-Site Scripting (XSS) vulnerabilities, bolstering overall security. Achieved a prediction accuracy rate of over 95% for SQL injection vulnerabilities. This strategy effectively mitigated security risks and bolstered sensitive data protection measures.

Projects

RealChat   April 2024
A Real-Time Chat App   *Python, Django, Websockets, Channels, HTML, CSS, JavaScript*

- Implemented a real-time chat application using WebSockets and Django Channels to facilitate instant communication channels between users.
- Designed an interactive frontend for users to easily join and interact in chat rooms. The backend, powered by Python and Django, ensures smooth operations and User Authentication. MySQL is used for efficient storage and management of user data and chat logs.

Sarang   Feb. 2024
A Music Streaming Website   *Python, Django, PostgreSQL, HTML, CSS, Javascript*

- Developed a feature-rich music player with user authentication for seamless login and logout. Users enjoy playing, searching, and filtering songs for an enriched music experience.
- Streamlined playlist management by implementing a user-friendly interface, resulting in improved organization and exploration of favorite songs. Leveraged Vercel for cloud hosting and integrated GitHub for efficient development and collaboration.

Movie Recommender System   Sep. 2023
Content-Based Model using the TMDB 5000 Movie Dataset   *Python, Scikit-learn, NLP, Pandas, StreamLit*

- Implemented Advanced Natural Language Processing (NLP) techniques to decipher movie descriptions.
- Engineered vectorization for similarity scoring and harnessed cosine similarity for precise predictions.
- Utilized Streamlit to create an interactive web application for visualizing and analyzing the trained model's performance.

Skills

Languages: Python, C, C++, SQL, JavaScript, Bash, Java(Basic)
Frontend: ReactJs, HTML, CSS
Backend: NodeJs, Django, ExpressJs, Flask
Databases: MongoDB, MySQL, PostgreSQL, MySQLite
Frameworks & Tools: Git, Github, Linux, Numpy, Pandas, Postman, RestAPI

Achievements & Certifications

- Achieved a maximum contest rating of 1788 on Leetcode.
- Successfully solved over 500 DSA problems across platforms like LeetCode, GeeksForGeeks, and Coding Ninjas.
- C Programming Bootcamp - The Complete C Language Course by Udemy − *Certificate*
- Machine Learning Specialization (Andrew Ng) by Coursera − *Certificate*
- Meta Back-End Developer Professional Certificate by Coursera − *Certificate*