RIYA SHARMA

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Education

Vellore Institute of Technology, Chennai   **2021 − 2025**
Bachelor of Technology in Computer Science and Engineering (Spl. in AI and Robotics) - 8.9/10   *Chennai, Tamil Nadu*

Kendriya Vidyalaya Pushpvihar, New Delhi   **2021**
Senior Secondary - 95.6 %   *Pushpvihar, New Delhi*

Technical Skills

Languages: C/C++ , Python, Java, SQL, JavaScript, Git
Frameworks: Django, ExpressJS, Node, Bootstrap, ReactJS, , MongoDB, MySQL, TensorFlow, Numpy, Pandas, GitHub
Relevant Coursework: Data Structures and Algorithms, Algorithmic Analysis, Operating Systems, Computer Networks, Object-Oriented Programming (OOPS), Database Management Systems (DBMS)

Projects

Hospital Management System ⧉   **May 2024**
- Implemented a robust MVC architecture to ensure efficient data flow and separation of concerns. The system supports seamless appointment booking for patients and provides doctors with tools for effective schedule management. A comprehensive admin dashboard includes role-specific functionalities for overseeing appointments and handling administrative tasks. Utilized **Express.js** to design and manage RESTful APIs, enabling smooth communication between the frontend and backend. **MongoDB** was employed for efficient data storage and retrieval, while **JSON Web Tokens** (JWT) were used for secure authentication and role-based access control.

Prediction of Mental Health using Federated Learning basd DistilBERT Algorithm   **May 2023**
- Developed a mental health prediction system that leverages **Federated Learning** in conjunction with the **DistilBERT** algorithm to maintain privacy and security while analyzing mental health conditions. Utilized **DistilBERT** for efficient **natural language processing (NLP)**, benefiting from its streamlined architecture compared to **BERT**. Performed a comparative analysis of standalone **deep learning techniques** such as **LSTM** and **BiLSTM**, as well as **DistilBERT** in isolation and **Federated Learning**-based methods incorporating **LSTM**, **BiLSTM**, and **DistilBERT**. Achieved a notable accuracy of **96%** with the Federated Learning approach using **DistilBERT**, showcasing its effectiveness in decentralized data training while ensuring high performance and data privacy. .

Hall of Fames ⧉   **March 2023**
- Developed using **Django** for the robust backend, complemented by **HTML**, **CSS**, and **Bootstrap** for the frontend. Implemented **authentication functionalities** to allow users to create and manage collections of YouTube videos. Enabled the framing and showcasing of these video collections by leveraging the **YouTube API** and **AJAX** for dynamic content loading. Utilized **Django Class-Based Views** to structure the application efficiently and streamline development.

Extracurricular

Microsoft Innovations Club   **December 2022 − December 2023**
Competitive Programming Co-lead   *Vellore Institute of Technology, Chennai*
- Involved in the Microsoft Innovations Club, as a competitive programming lead, guiding a community of **40+** members.
- Successfully planned and executed a variety of technical events on behalf of the club, thereby disseminating valuable technical knowledge and instilling a culture of continuous learning among participants.

Achievements

DataXact   **June 2023**
First Position in Datathon   *Vellore Institute of Technology, Chennai*
- Competed in a datathon with **50+ teams**.
- Effectively analyzed, preprocessed, and trained machine learning models on a carbon emission dataset for regression, achieving an F1-Score of **90%**.