Aishani Singh

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Education

B.Tech, Computer Engineering
Sardar Patel Institute of Technology, Mumbai, IN
Graduating in May 2027

Projects

- **Flood Risk Prediction Model (Machine Learning Mini-Project)**
  Python, Machine Learning
  November 2024
  - Designed and implemented an ML model leveraging machine learning and real-time weather data to predict flood risks with precision.
  - Orchestrated the cleaning and processing of historical flood data, meteorological data, and elevation data to enhance model accuracy.
  - Utilized various ML models like random forest, regression, neural networks, achieving an outstanding accuracy of up to 95 percent.
  - Deployed the model using Google Colab for testing and analysis, ensuring accessibility and ease of use for stakeholders.

- **Napflix - A Streaming Platform (DBMS Mini-Project)**
  Python, SQL, Javascript
  December 2024
  - Conceptualized and optimized a SQL database structure for efficient content storage, user authentication, and streaming history management.
  - Engineered a secure login system integrating hashed password storage to fortify user credentials against security vulnerabilities like SQL injection.
  - Enhanced database query performance and server response times for streamlined data retrieval and uninterrupted streaming experience.
  - Crafted an interactive front-end using JavaScript and a secure back-end architecture with Python and SQL.

- **SheFunds - A Financial Literacy Platform for Women (Front-end Project)**
  Javascript
  March 2025
  - Awarded best solution for the problem statement at BBB-Frontend Hackathon at SPIT, showcasing innovative thinking and technical prowess.
  - Engineered a responsive front-end interface with React.js and Tailwind CSS, ensuring seamless user experience on diverse devices.
  - Designed interactive UI components to showcase key features such as financial learning modules, calculators, community posts, and literacy courses.
  - Prioritized user-centric design to empower women with seamless access to financial resources, tools, and mentorship programs.
  - Optimized website for accessibility and performance, resulting in swift loading times and enhanced usability. Managed social media presence, negotiated marketing deals, and volunteered for social initiatives.

Skills

Languages: C, C++, Java, Python, SQL, HTML, CSS, Javascript
Tools: Bootstrap, Figma, Canva, Blender, Sculptris