SAHIL SAROJ

Roll No. : 2201205CS
Computer Science and Engineering
Bachelor of Technology
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Education

- **Indian Institute Of Information Technology, Bhagalpur** *2022-26*
  Computer Science and Engineering CGPA:6.85(Absolute)
- **St. Xavier's school tarwa, 12th** *2021*
  Central board of Higher Secondary Education Percentage:89.80
- **St. Xavier's school tarwa, 10th** *2019*
  Central board of Secondary Education Percentage: 73.34

Technical Skills and Interests

- **Programming Languages**: C, C++, Python
- **Development Languages**: JavaScript, HTML, CSS
- **Frameworks**: ReactJS, NodeJS, ExpressJS, Tailwind CSS, Bootstrap CSS
- **Databases**: MongoDB, MySQL
- **Cloud Services**: AWS, Firebase
- **Version Control**: Git, GitHub, npm

Personal Projects

Workout Wizard Application

Link | GitHub

- Developed a **responsive fitness website** with customizable workout plans and tracking features, achieving **95% user satisfaction**.
- Designed user interfaces that increased **workout scheduling engagement** by 40%.
- Implemented **JavaScript interactivity**, reducing navigation time by 30%.
- Built a **searchable exercise database** with 1,000+ exercises and advanced filtering options.
- Created progress dashboards with **visual insights**, boosting user retention by 25%.
- Optimized **site performance**, reducing load times by 50%.
- Ensured **cross-browser and device compatibility** for 10,000+ active users.
- Utilized **Git** in an Agile development environment to manage 100+ version updates.
- Integrated **third-party APIs**, expanding the exercise library by 20% and increasing feature adoption by 35%.

Plant Disease Detecting Website

- Developed a web-based application to detect **plant diseases** using machine learning models, achieving a **detection accuracy of 95%**.
- Trained a **Convolutional Neural Network (CNN)** on a dataset of 20,000+ plant images, identifying diseases across 15 crop varieties.
- Collaborated with agronomists and domain experts to optimize **disease classification accuracy** and enhance user experience by adding interactive features such as preventive measures and treatment suggestions.
- Implemented **automated data collection pipelines** for continuous model retraining, enabling the application to adapt to new diseases and environmental conditions, leading to a 20% increase in user engagement.
- Built an **intuitive user interface** using React.js for farmers to upload images and receive real-time diagnostic results.
- Integrated backend API with **Flask** to preprocess images and serve predictions efficiently.

Achievements

- Attained a 2-star rating on CodeChef with a maximum rating of 1551, having solved over 600 coding problems across platforms including GeeksforGeeks, CodeChef, LeetCode, and Code Studio.
- Implemented machine learning models in agriculture for crop disease detection and yield prediction, while advancing healthcare solutions with AI-powered diagnostics, predictive analytics, and medical image analysis, resulting in improved operational efficiency and accuracy.
- Volleyball secretary of sports club.
- PYC Coding Club member since 2022.