




SUBHOSHRI PAL

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Education

Indian Institute of Engineering Science and Technology, Shibpur

BTech Course in Information Technology; CGPA: 9.15

Aug. 2023 – Present

Shibpur, West Bengal

Sun Valley International School

Higher Secondary Diploma; Percentage: 95.6

Apr. 2021 – Mar. 2023

Ghaziabad, Uttar Pradesh

Projects

Contextual Chatbot | *Python, Flask, Machine Learning*

December 2024

- Engineered a chatbot using Flask, HTML, CSS, and JavaScript, featuring real-time message exchange.
- Integrated Backend Logic to process user inputs via Flask endpoints, ensuring smooth communication and enabling scalability for advanced AI/ML models.
- Designed Responsive UI with fixed backgrounds, seamless styling, and locally hosted resources to enhance reliability and user engagement.

Quidditch Quest | *HTML, CSS, Javascript*

June 2024

- * Built a side-scrolling web game with obstacles and interactive trivia challenges inspired by the Harry Potter universe.
- * Designed a responsive UI using HTML5, CSS3, and JavaScript, enhancing the gameplay experience with custom buttons and animations.
- * Implemented real-time score tracking and in-game characters to dynamically generate challenges.
- * Secured 4th place in the Web Game Challenge at IEST Shibpur among 50+ participants.

Customer Churn Analysis | *Machine Learning*

March 2024

- Developed a predictive model to analyze more than 7000 records of a telecom company's customer churn rate using supervised learning techniques.
- Implemented bagging, boosting, and stacking ensemble methods to enable the model to train and improve prediction accuracy.
- Achieved 81.16% accuracy in identifying high-risk customers, enabling businesses to optimize retention strategies.
- Utilized Python, Pandas, Scikit-learn, and Matplotlib for data preprocessing, model training, and visualization.

Skills Summary

Technical Skills: Python, C, C++, SQL, Javascript, HTML, CSS, Machine Learning, Tensorflow, Pytorch

Developer Tools: VS Code, Git, Github, Jupyter Notebook, Flask, Google Colab

Soft Skills: Team Management, Problem Solving, Leadership, Public Speaking, Technical Writing

Achievements

Tensor Quest, IEST Shibpur

January 2025

Achieved 3rd position in a 50-hour Machine Learning Hackathon organized by IEST Shibpur for creating a classification Machine Learning Model to classify SMS as spam or not spam and analyzed Memotion dataset to classify memes as positive, neutral or negative with 85% accuracy.

DataThon, IEST Shibpur

March 2024

Secured 3rd place in Machine Learning Hackathon at IEST Shibpur, constructing a predictive model in identifying data patterns of customers in retail.

Innovation Challenge Techfest, IIT Bombay

August 2021

Ranked 3rd out of 500+ teams in IIT Bombay's Innovation Challenge for devising a novel air pollution mitigation strategy.

Certificates

Certification of Participation in MUN 2025 | IIT Guwahati

February 2025

Certification of Introduction to Machine Learning | Great Learning

May 2024

Certification of Participation in ByteVerse Hackathon 2024 | NIT Patna

March 2024

Certification of Participation in GMUN 2024 | IIT Kharagpur

January 2024