

SAYAMBAR ROY CHOWDHURY

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I am a Second Year Computer Science and Engineering student having keen interest in Machine Learning, Data Analysis and Neural Networks. I am a sophisticated Machine Learning Engineer with background in independent research using intuitive, web-based architecture. Skilled in Regression Analysis with documented history of discovering methods to intelligently use data to enhance user experience. Effectively researches techniques for novel approaches to problems, develops prototypes to assess viability of approach and deploys application into production yielding insights to expand customer-consciousness.

Projects

California House Price Predictor

Project Highlights:

Advanced Machine Learning: Leveraged XGBoost and fine-tuned hyperparameters for optimal performance.

High Accuracy: Achieved an r^2 score of 0.999 on the train set and 0.835 on the test set.

Web Integration: Created a user-friendly web application using Flask.

Medical Insurance Premium

Project Highlights:

Created a Random Forest Regressor Model and fine-tuned hyperparameters for optimal performance.

Accuracy: R^2 score of 0.971 on the training set and 0.817 on the test set.

Web Integration: Used an user-friendly web application using Flask.

Heart Disease Predictor

Project Highlights:

Implemented a Logistic Regressor Model and to predict Heart Disease based on various input parameters.

Accuracy: The model achieved an R^2 of 0.85 on training data and 0.82 on test data.

Web Integration: Used an user-friendly web application using Streamlit.

Breast Cancer Predictor

Project Highlights:

Implemented an Artificial Neural Network to predict Heart Disease based on various input parameters.

Accuracy: The model achieved an accuracy of 0.95 on training data and 0.89 on test data.

Web Integration: Used an user-friendly web application using Streamlit

Skills

Machine Learning , Deep Learning , Neural Networks , Data Analysis , Python/C/C++ , Streamlit

Education

AUG 2023- PRESENT

Bachelor of Technology in Computer Science and Engineering | Heritage Institute of Technology| Kolkata

Grade: 9.73 YGPA (1st Year)

Clubs and Societies: Google Developers Student Club (student member) , Geeks United

MAY 2020- JUNE 2022

CBSE 10+2 | Kalyani Public School | Barasat

Grade: 92% overall

Subjects: Maths, Physics, Chemistry, Biology, English and Geography

MARCH 2007- APRIL 2020

ICSE | Assembly of Christ School | Barrackpore

Grade: 93% overall

Achievement: Stood 2nd in class in ICSE Examination 2020

Languages

Bengali (Mother Tongue)

Hindi (Professional Proficiency)

English (Professional Proficiency)

Activities

Cricket • History • Politics • Software Development • Competitive Programming • Travel