**SHRIJOY CHOWDHURY**

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| Data Scientist with 2+years of experience executing data-driven solutions to increase efficiency, accuracy and utility of internal data processing. Experienced at creating regression and classification models using predictive data modeling and analyzing data to deliver insights and implement action-oriented solutions to complex  **Work Experience:**  DCM Shriram Consolidated Limited Apr’18-Dec’20   1. Data analysis and predictive modelling for prediction of crane breakdown:  * Used predictive analysis such as machine learning algorithms to forecast breakdown of cranes with 97% accuracy. * Used data from the past 5 years to build the model. * Developed a support vector machine model with accuracy of 97% and F1-score of 91% to predict the breakdown of crane depending upon different parameters of crane. * Helped in minimizing downtime of cranes, cost incurred due to breakdown of cranes and increased production.  1. Data analysis and regression modelling for reducing power consumption of cooling tower:  * Conducted data regression analysis to predict the winding temperature of the transformer. * Developed a XGBoost model with RMSE value of 0.823 to predict the winding temperature of the transformer depending upon different factors. * After that developed a classifier model to predict the number of cooling tower motors required to maintain the required transformer temperature. * Upon analysis was able to reduce power consumption of cooling tower by 7.9MWH per month by installing temperature controller. Hence, resulting in cost reduction of 2.5lacs per year.  1. Analyzed power consumption due to lighting using extrapolatory data analysis in python and excel and came up with recommendations of replacement of the existing lights with suitable light fitting depending upon the environmental condition and their life for reducing the power consumption and expenditure on lighting procurement.   **Skills**:   * Machine learning algorithms(linear regression, logistics regression, boosting techniques(XGBoost, Ada boost), Random Forest, Decision Tree, Support vector machine, Neural networks, Deep learning) * Well acquainted with python,SQL * Familiar with libraries such as pandas,scikit-learn, numpy for data handling, predictive modeling and numerical calculations. * Visualization libraries such as matplotlib and seaborn * Keras and Tensorflow for neural network and deep learning   **Academic Projects:**   1. Prediction of Total Power Consumption: The objective of the project was building different regression models to predict the total power consumption depending upon the various factors such as generation and weather factors. Best model was determined by calculating the RMSE value.   Key Skill: Logistic Regression, Random forest, Boosting techniques, Data Visualization   1. Prediction of people survived in Titanic disaster: The objective of the project was to predict number of people who survived in Titanic disaster. Best model was determined using accuracy, kappa score and F1 score.   Key Skill: Logistic Regression, Decision Tree, Support Vector Machine, Data Visualization   1. Prediction of mental treatment requirement: The objective of the project was to predict the employee who required treatment depending upon different family, working and employer conditions. Best model was determined using accuracy, kappa score and F1 score.   Key Skill: Logistic Regression, Decision Tree, Support Vector Machine, Data Visualization   1. Best intraday prediction: The objective of the project was to determine the best day to do intraday trading. There were different challenges in the test and training data. Best model was determined using accuracy, F1 score and RMSE value.   Key Skill: Logistic Regression, Decision Tree, Support Vector Machine, Linear Regression, Data Visualization  **Organizations:**   * DCM Shriram Consolidated Limited Apr’2018-Dec’2020 * Jindal Stainless Limited Aug’2014-Mar’2018   **Education:**  2021: Post Graduate Program in Analytics and Artificial Intelligence from Imarticus  2014: **B.Tech. (Electrical)** from Institute of Technical Education & Research, SOA University with 87.5%  2010: **12th** fromGulmohur High School, ICSE Board with 86.33%  2008: **10th** fromGulmohur High School, ICSE Board with 89.28%  Links:   * [www.kaggle.com/shrijoychowdhury](http://www.kaggle.com/shrijoychowdhury) * [www.linkedin.com/in/shrijoy-chowdhury-58a3a9184/](http://www.linkedin.com/in/shrijoy-chowdhury-58a3a9184/) |  |
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## Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned details.

**Place**: Bangalore **Yours Faithfully**

**Shrijoy Chowdhury**