Saswat Swain

Project Engineer,Wipro Technologies

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- 2 years of Analytical experience on data analysis,visualization,predictive model building.
- 2 years of IT experience as an Applications Engineer in analysis,Problem solving and coding.
- Industrial experience on ML projects using Classification, Regression and hands on using other ML models
- Clear understanding on Model Selection based on Business problems.
- Well versed with critical thinking and presentation skills.
- I consider myself as a self-motivated and constant learner.

Work Experience

Project:**Insurance Application development**
The purpose of this project is to build a predictive model to determine if a building will have insurance claim during a certain period or not and provide the results as per Business requirement.
▪Responsibilities:
(i) Data Collection, Data Cleaning and data pre-processing,performing EDA and drawing the insights through the data.
(ii) Selection of machine learning algorithms and Model building .
(iii) Performance analysis of Models and Cross verified the prediction of the model against the actual condition of the bearing after the test.

Project:**Demand Forecasting of Products**
The purpose of this project is to build a predictive model to Forecast the demand of nearly 2,50,000 UPC level products on weekly basis as per business requirement.
▪Responsibilities:
(i) Data Collection, Data Cleaning and Data pre-processing,Performing EDA and drawing the insights through the data.
(ii) Selection of machine learning algorithms and Model building of each UPC level products.
(iii) Performance analysis of each and every Models with UPC level product and finally creating a automated model to forecast demand of each product on weekly basis.

Project:**Wipro Internal Project**
- Responsibilities:

(i).Part of an initial Machine Learning foundation team.
(ii). Automated Multiple time consuming manual process using ML and Text Analytics.
(iii). End to End development of ML based web application.

Technical Skills

▪**PROGRAMMING LANGUAGES**:Python,Java
▪**MACHINE LEARNING**: (i) Classification Algorithms: Logistics Regression, KNN, Decision Tree(CART), Random Forest, SVM,Naive Bayes,Adaboost,Xgboost.
(ii) Regression Algorithms:Linear Regression, Decision Trees, random Forest.
(iii)Clustering Techniques:K-Means, Hierarchical Clustering.
(iv)Dimension Reduction Techniques:PCA,LDA.
▪ **TEXT ANALYTICS**: TF-IDF and Count Vectorizer,Word2Vec,Topic Modelling,Sentiment Analysis.
▪ **STATISTICAL ANALYSIS**: EDA, Inferential Analytics, Hypothesis Test, t-test, ANOVA, ANCOVA, Outlier Detection, Inter-Quartile Ranges, Sampling Techniques, Boxplot.
▪ **DATABASES**: Mysql,Microsoft Sql,MongoDB.
▪**DEEP LEARNING**:Basics of Neural Networks,RNN,LSTM,GRU,Seq2seq models with Attention mechanism,optimizers.
▪**LIBRARIES & PACKAGES**:Pandas,NumPy,Matplotlib,SciPy,Spacy,Sklearn,Seaborn,NLTK,Tensorflow.
▪**FRAMEWORKS**:Flask,Pyramid,Flassgers,Streamlit.
▪**TOOLS**:Jupyter notebook,Spyder,Eclipse,VB Studio,PostMan,Dynatrace,Docker,Tableu,MS Excel.
▪**CLOUD PLATFORMS**:Heroku,Azure,Google Cloud.

Education

Completed Bachelor in Technology from Biju Pattnaik University of Technology with 8.5 Cgpa.

Project and Competitions Portfolio

FLIGHT TICKET FARE PREDICTOR ▪Data analysis and building a ML based web application to predict the Flight Ticket Price so that user can choose best price of ticket.
BANK NOTE AUTHENTICATOR ▪ML based web application to classify the category of note .
▪The application is built with flask,flasgger and streamlit libraries.
FAKE NEWS CLASSIFIER▪Data Analysis and building a predictive model to determine the News as fake or real using Deeplearning Techniques.
▪Building an ML based web application and deploy it in Heroku Platform.

Personal Details

Date of Birth: 18/09/1996 | Languages Known: English,Hindi & odia | Nationality: Indian l Marital Status: unmarried