AJAY PANINDRA

DATA SCIENTIST | MACHINE LEARNING ENGINEER

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ABOUT ME

Throughout my career, I have contributed to positive business results through effective organization, prioritization and follow-through of key organizational projects. Expertise in managing **Data Science** project using various **statistical** and **machine learning** concepts. Working experience in **python, R, sql, mongodb, tableau, Bigdata hadoop , Spark , HTML,** Deployed the machine learning models in **Aws, Azure, Gcp, Heroku** .

CAREER OBJECTIVE

I am passionate about working with the organizations that want to make effective use of their data; from the first ideas arround what they need to measure and how to capture the data accurately, which may be through data preparation,analysis, and management, modeling and evaluation, & all the way to the impactful presentation of insights from the data.

TECHNICAL SKILLS

- Expertise in managing the full life cycle of **Data Science** project includes transforming business requirements into **Data Collection, Data Cleaning, Data Preparation, Data Validation, Data Mining,** and **Data Visualization** from various **Data Sources**
- Experience in **Statistical modeling** techniques such as **LinearRegression, Multiple Linear Regression, Logistic Regression, GradientBoosting , AdaBoost, XGBoost, Clustering Analysis, RandomForest, Decision Trees , Neural Networks (ANN, CNN,RNN), Naive Bayes Classifier, Dimension Reduction, SVM ,**& **Tree-Based Methods**
- Experience in Python libraries such as **Pandas, NumPy, SciPy, Scikit-learn, Matplotlib, Seaborn, NLTK, Keras, TensorFlow, Gensim**
- Experience in **Data Visualizations** using **Matplotlib, Seaborn** in **Python**, **Tableau, Excel**.
- Hands-on experience using the **Big Data Hadoop framework tools(Pig, Hive, Hbase)** and **Apache Spark (Pyspark , Mllib)**.
- Deploying the machine learning models in the **Aws EC2, Microsoft Azure, Google Cloud Platform(GCP), Heroku** using python **flask** and **html-css**

AREAS OF EXPERTISE

Programming Language : **Python**
Statical Programming Language : **R** Programming
Data Visualization : **Tableau**
Database : **SQL Server, MongoDB**
Scripting : **Html-CSS scripting**
Big Data Ecosystems : Hands-on experience in **Hadoop framework ,MapReduce, HDFS, Hive, Pig, Hbase, Apache Spark, SparkSql, SparkMlib, Setting the hadoop services**
Platforms : **Jupyter Notebook, Spyder, Google Colab, Pycharm, Windows, Linux (Cent os & Ubuntu)**
Cloud Servers : **AWS (EC2, Sagemaker), Azure, Google Cloud Platform (GCP), Heroku**
Misc knowledge: **Dockers, Containers and Kubrnetes**

PROJECTS

Title – Prioritization Of Appointment (Ongoing)

Libraries Used : Pandas,Numpy,Matplotlib,Seaborn,Sklearn preprocessing,Feature extraction,Clustering algorithms – Kmeans,Agglomerative, PCA, XG Boost, flask, Html
Platform : Pycharm, Google colab
Runtime Environment : Python3
Data Visualisation tool : Tableau, Excel

Business objective:

To build a model which can cluster the patients and prioritize their appointment with the doctor considering various attributes of their health condition .

Responsibilities:

- Collecting the data ,Data pre-processing, Exploratory Data analysis (EDA)
- Building and testing the models using clustering, boosting techniques.
- Deploying the model using python flask code using html script

Title - Product Demand Forecastor (Time Series Analysis)

Libraries Used : LSTM, Gluonts-DeepAREstimator, Pandas, Numpy, sklearn, Matplotlib, Seaborn
Platform : Pycharm, Google colab
Runtime Environment : Python3
Data Visualisation tool : Tableau
Deployment : Flask,html, GCP (google cloud platform)

Business objective:

To develop a machine learning model for forecasting the demand of a particular automobile spare part considering the Time-Series data

Responsibilities:

- Exploratory Data analysis (EDA) , Data pre-processing
- Data Visulaizations for finding the patterns of the time series data
- Built different models using gluonts package with LSTM algorithm
- Involved in developing models using other techniques
- Evaluating the built model and involved in the preparation of power point presentation(PPT)
- Deployed the model using the python flask , html and GCP platform

Title – Topic Semantic Analysis (ACADEMIC)

Libraries Used : Gensim, LSI , Parsing, CohereneModel, Pathlib, Bs4 (BeautifulSoup), Matplotlib,
Tool / Platform : Pycharm , Google Colab
Runtime Environment : Python3

Business objective:

To develop a model which can analyse the text and can segregate the the documents based on the hidden topics in it.

Responsibilities:

- Writing a user defined method for cleaning of the data (numbers, spaces, symbols)
- Using BeautifulSoup for extracting the contents from the documents
- Preparing the documents,coverting the documents to bag of words
- Creating the Lsi model with the user defined number of topics
- Calculating the coherence scores for the accuracy and generating the visulaization

Title – Loan Defaulters (ACADEMIC)

Libraries Used : Pandas,Numpy, Sklearn, Matplotlib, Seaborn, Decission Tree, LabelEncoder
Platform : Google Colab, Pycharm
Runtime Environment : Python3 and R

Business Objective:

To develop a model which can clasify the customers whether they are going to default or not default based on the given input data

Responsibilities:

- Getting the customers data and Data pre-processing by imputing the na values and removing the unwanted columns
- Exploratory data analysis and visualisation of the data
- Getting the label encoder values for the categorical data
- Building the Decission tree algorithm for finding the classification rules by using different hyperparameters
- Preparing the powerpoint presentation for the built algorithm

Title – Movies Classifier (ACADEMIC)

Libraries Used : Bagging classifier, Adaboost classifier, Gradient booster, Xgboost, Decission tree, Randomforest classifier, Pandas, sklearn, Matplotlib, Seaborn, Pandas
Platform : Pycharm, Google Colab
Runtime Environment : Python3

Business objective:

To develop a machine learning model which can classify the movies which are having the scope for an oscar award

Responsibilities:

- Data Pre-processing ,data cleaning
- Creating the dummy values for the categorical variables , pre-processing, splitting the data
- Implement the bootstrap aggregating, boosting , decission trees algorithm, getting the confusion matrix and accuracy score for the algorithms and building the agorithm

PROFESSIONAL EXPERIENCE

Innodatatics | (ProjectBased) March 2021 – Current

Data Scientist:

- Collected the data from various datasources and built the machine learning models
- Involved in preparing the project CRISP-DM sheet
- Prepared the documentation for machine learning models developed
- Enhanced the skills in various machine learning and data science concepts
- Developed the machine learning models using python and R programming languages
- Presented the ppt to the senior management
- Deploying the machine learning models on different cloud platforms

Oravel Stays Private Limited | July 2019 – Aug 2020
Operations Managers:
- Extracting the data from the crm and online portal
- Getting the insights from the data and updating the management through the google docs.
- Facilitated business procedures by keeping a library of templates and reusable documents that could be used as guides
- Assessed trends in product marketing to develop effective and competitive strategies to increase company's market share and visibility.
- Investigated all options to remedy customer issues and offered replacement items before offering refunds in order to maintainrevenue.
- Consistently achieved top ranking for customer satisfaction,retention and referrals.

Hongkong and Shanghai Banking Corporation Limited | July 2016 – Aug 2017
Customer Service Executive(level 8):
- Collected data from various sources and prepared reports on a weekly basis for management.
- Getting the reports from the account data which was processed and updating the excel sheet
- Developed deep knowledge of company's products and services, improved quality of service.
- Effectively handled calls in phone queues, resulting in 100% improvement over previous records.
- Collected customer information, assessed issues and determined possible solutions.
- Responded with insight to customers needs and expectations and improved customer satisfaction ratings for the company.

ACADEMICS

Bachelor Of Engineering (ECE) | Andhra University, Visakhapatnam, Nov - 2015

Board Of Intermediate Education | Sri Chaitanya Junior College, Visakhapatnam, 2011

School Education | Pollocks School, Visakhapatnam , 2009

ACHIEVEMENTS

Top Performer Award
Received top performer award for achieving remarkable accuracy and consistancy when working with HSBC

Best Employee Of The Region
Awarded as the best employee of the region for my performance and reaching the business targets set by the Oravel stays pvt ltd company

CERTIFICATES

IBM
Python for DataScience

360DigiTMG
Data Science using Python & R Programming

Udemy
Investment Banking, IPO

ENDORSEMENT

I hereby declare that the particulars furnished above are true to the best of my knowledge and belief.

AJAY PANINDRA