Pushpalatha **Pasam**

Address Visakhapatnam, AP, 535216

Phone 789 328 7471

E-mail ppushpa994@gmail.com

Skilled Machine Learning Research Associate specializing in and well-versed in Machine Learning and Data Science techniques using python. Insightful professional ready to apply 3.5 years' of experience to new role with room for growth and advancement.

Skills

Python/Scikit Learn/Pandas/Numpy
Machine Learning
Natural Language Processing
Statistical Modelling
Apache Spark
IBM SPSS MODELER
IBM Watson studio
Exploratory data analysis
Data Modelling
Data Visualization

Education

2015 **Bachelor of Engineering, Madanapalle Institute of Technology & Science**
Information Technology, Madanapalle

Roles and Responsibilities

Feb 2016 - Current **Data Scientist**
Miracle Software Systems, Inc., Visakhapatnam, Andhra Pradesh

Expertised in building Classification, regression and clustering machine learning models for better understanding the patterns and future predictions using python.

Expertised and hands on experience in SparkMLlib, IBM Watson Studio, IBM SPSS MODELER tool and on important python libraries like Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn.

Expertised in exploratory data analysis including data cleaning, feature selection, feature extraction using different techniques.

Expertised in dealing with high dimensional data and dimensionality reduction techniques like PCA, SVD.

Hands on experience and expertised on all regression models and classification models like Logistic Regression, SVM, K Nearest neighbours, Decision tress, Naive Bayes, k-means.

Expertised in NLP libraries NLTK, Spacy, TextBlob.

Capable of handling the End to End data science project, handling any kind of data.

Expertised in understanding the business requirements and developing new insights using Machine Learning and statistical models and techniques.

Expertised in optimization modelling and advanced techniques like bagging, boosting algorithms.

Good knowledge in Hadoop, Apache Spark, Kafka, Hive comfortable enough working with these big data tools.

Certifications

IBM Certified Specialist - SPSS Modeler Professional v3! (C 2090-930)

Professional Experience

v **Project Title:** ITSM – Incident Ticket System Management

Using python NLP, classified the tickets raised by the users into respective categories using the ticket description also determined the priority for the ticket using Naïve Bayes and SVM algorithms respectively using the historical tickets data. Created a UI using python flask to display the appropriate category, priority and if any similar kind of tickets have been raised by the users in the past.

Tools and Techniques Python, Scikit learn, Naive Bayes, SVM, Natural Language Processing, Flask, HTML, CSS

v **Project Title:Customer Order Behavior**

Created an application using PySpark, did necessary data transformations to determine what are all the products that are frequently brought by the customers using the historical data using FP-Growth algorithm. Developed the whole application in IBM Watson Studio Python-Spark notebook and integrated it with IBM Cognos Dashboard Embedded service. Using Cognos Dashboard

Embedded Service build various graphs to display the user purchasing patterns.

Tools and Techniques: Apache Spark - Pyspark, SparkMLlib, FP_Growth algorithm, Python, IBM Watson Studio, IBM Cognos Dashboard Embedded Service, Flask

v **Project Title: Employee Attrition**

Build a predictive model using IBM MODELER of IBM Watson Studio. Imported the datasets using IBM Cloud Storage and exported them to Modeler. Did the necessary Data Transformations and Data Cleansing steps. Build a classification model to predict the "When and Why the Employee will be leaving the Company". Got 80% accuracy. Deployed the model to IBM Watson Machine Learning Service of IBM Cloud. Created a Python application to trigger the deployed model from object storage and predicted the employee status based on given input features.

Tools and Techniques: IBM SPSS MODELER, Python, Django, Flask, Naive Bayes and Logistic Regression

v **Project Title: Tank-o-Meter**

Using python, did data analysis to determine how much water consumption has been utilized as per past hourly, weekly and yearly based data. Build a time series model to predict how much water consumption is going to in happen for the next hour, next day, and next week. Build a UI using Flask and created graphs as well to display the predictions.

Tools and Techniques: Time Series Arima, Python, Flask, Plotly

v **Project Title: Customer Churn**

Developed a python application to predict and analyze which features are affecting the customer attrition. Using exploratory data analysis and feature selection determined the important features and patterns. Through Decision tree classification predicted the chances of customer churn happening.

Tools and Techniques: Python, Plotly, Decision Tree