**Mohammadazar Pathan**

ML Engineer

**More than 3.2+ years of experience as ML Engineer, now seeking a challenging position to utilize my skills and abilities that offers Professional & Organizational growth, while being resourceful and innovative. I work primarily in the Financial and Healthcare domain. Have expertise in preparing and preprocessing data, deriving useful insights from data, developing and deploying highly scalable machine learning models.**

# WORK EXPERIENCE

**3.2 Years of working experience at Cybage, Pune as ML Engineer from May 2019 to Till Date.**

**PROJECTS**

**1. Project Name: Hospital Readmission Reduction Program**

**Description:**

As the healthcare system moves toward value-based care, CMS has created many programs to improve the quality of care of patients. One of these programs is called the Hospital Readmission Reduction Program (HRRP), which reduces reimbursement to hospitals with above average readmissions. One patient population that is at increased risk of hospitalization and readmission is that of diabetes. In this project we demonstrate how to build a model predicting readmission.

**Responsibilities:**

* + Understanding the dataset and performing the different analysis on it.
  + Handling the imbalanced data.
  + Performing the data wrangling and feature engineering on the dataset.
  + Select and apply suitable Machine learning model
  + Evaluate assembled model to enhance the performance in terms of exactness.

**2. Project NameProject Name: Customer Segmentation using Clustering**

**Description**:

Extracting the meaningful patterns from data sources and types to describe and predict key outcomes by the use of a mathematical & clustering model to discover groups of similar customers based on finding the smallest variations among customers within each group.

**Responsibilities:**

* Understand the customers like who can be converged [Target] so that the sense can be given to marketing team and plan the strategy accordingly.
* Coordinate with different functional marketing strategy teams to implement model to increase and optimize customer experiences, revenue generation, ad targeting and other business outcomes and monitor outcomes.
* Providing the business solutions with the help of segmentation results

**3. Project Name: Job Recommendation System**

**Description:**

The dataset used for this research are sourced from survey data which is modelled as the user data for this research. We have implemented a recommender system based using filtering techniques and Natural language processing to recommend top n jobs based on the user profile.

**Responsibilities:**

* To scrape data to create offline Job dataset.
* To develop a user profile based on survey data
* To construct a recommender model that can address cold start issue
* To devise recommender model which recommends Job to the job seeker based on skills.

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**Marital status:** Married

**Language:** English, Hindi, Marathi

**Hobbies:** sketching & cooking

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# KEY SKILLS

* **Machine Learning techniques (supervised & unsupervised):**

Linear Regression, Logistic Regression, Lasso & Ridge Regression, Naive Bayes Classifier, k-NN, Decision Trees, Random Forest, Gradient Boosting, AdaBoost, XG-Boost and K-Mean Clustering

* Data Pre-processing , Data Analysis , Data Visualization , Statistics modelling, Ensemble techniques , Model Development , Clustering and Classification , Natural Language Processing.
* **Python/ML Packages:** NumPy, Pandas, Sci-py, Scikit-learn, Seaborn, Matplotlib, Flask.
* **Text Processing:** NLTK, Term Frequency- Inverse Document Frequency (TF-IDF), Bag of Words.
* **API’s & Production:** Flask Web framework, AWS

clients by producing financial ratios.

* **Database:** Mongo DB, MYsql
* **Cloud Platforms:** AWS
* **Operating System:** Windows

# TECHNICAL SKILLS

* A professional with an experience in Python, Data Science and Machine learning with expertise in Finance and Document Classification domain projects.
* Ability to achieve in-depth understanding of the problem domain and available data assets.
* Able to investigate Data Visualization and summarization techniques conveying key findings.
* Communicates findings and obstacles to team members to achieve the best approach.
* Ability to write clean and production code with OOPs in Python.
* Thorough understanding of Probability and Statistics, Bayesian methods.
* Strong Programming skills.
* Experience in data management tools - Relational and SQL databases, MongoDB
* Knowledge of Python’s Data Analysis and Machine Learning Libraries.
* Implementation of Recommendation system using Collaborative and Content based filtering.

**EDUCATION**

**BE | Savitribai Phule Pune University |**

2013-2018 | 56.95%

**HSC | De Paul Junior College, Rahuri Factory | MH Board |**

2013 | 73%

**SSC | Shri Chattrapati Shivaji Highscool, Shrishivajinagar**

**| MH State Board |**

2011 | 64.55%

# PERSONAL PROJECTS

**House price prediction** :

In this task on House Price Prediction using machine learning, our task is to create a machine learning model to predict house prices in the State.

The data includes features such as population, median income, and median house prices.

# Summerize Text Using ML:

# Natural Language Processing to summarize text with Machine Learning.

# Natural Language Processing related tasks such as text classification, answering questions, legal text synthesis, news synthesis, and headline generation which can be achieved with Machine Learning.

# Online shopper intention classification:

# Used Logistic regression & ANN with hyperparameter tuning using GrdiSearchCV to determine whether a shopper will make a purchase online or not based on diferent features.