# Sayali Walke

## BUSINESS INTELLIGENCE | DATA SCIENTIST

## **PORTFOLIO**

sayaliwalke30.github.io/

#### **CONTACT**

✓ sayaliwalke30@gmail.com

**(206)-751-9440** 

Seattle, WA

in savali-walke-7712b874/

## **PROFILE**

Data Scientist with a strong background in Business Intelligence who is proficient in delivering valuable insights through datadriven approaches. Love to learn new technologies and be curious.

#### **EDUCATION**

Aug 2018 – May 2020 Northeastern University [Seattle, WA] **MS in Information Systems** [3.84/4.0]

June 2009 - May 2013 Govt. College of Engineering [India]

## BE Electronics & Telecommunication [4.0/4.0]

## **TECHNICAL SKILLS**

- Python (Pandas, NumPy, Seaborn, Scikit-learn, Matplotlib)
- Data Analysis (Python, MySQL)
- Business Intelligence (Tableau, Power Bl, ETL, SSIS, SSRS, SSAS, Amazon Redshift)
- Machine Learning (Regression, Classification, Random Forest, Neural Networks)
- Statistics & Probability
- Big Data Systems (Hadoop Map Reduce, MongoDB, DynamoDB, AWS EMR, Hive, Pig)
- Programming (Python, Java)

#### **MANAGEMENT SKILLS**

- Excellent Communication
- Stakeholder Engagement
- Agile Development
- Excellent Presentation Skill

#### **ANALYTICS & DATA SCIENCE PROJECTS**

Aug 2018 - April 2020

## Customer Segmentation (Python, Tableau ) Github

 Performed behavioral customer segmentation using k-means clustering technique. Grouped customers based on RFM (Recency, Frequency, Monetary) attributes to determine effective & tailored marketing strategies for 500k customers.

## Judge a Book by its cover (Pytorch, Python ) Github

 Created Deep Learning Convolutional Neural Network (CNN) to predict the genre of the book by its cover to classify 57000 images.
 Implemented transfer learning technique to address this image classification problem and improved accuracy to 72%.

## Stock Analysis & Forecast (Python, SQL, PowerBI) Github PowerBI

Web scraped stock statistics for over 500 stocks to perform Time Series Analysis. Built an interactive dashboard that allows users to make data-driven decisions. Developed and evaluated different models to forecast stock prices using ARIMA, k-NN.

## Big Data Analysis & Recommender (Python, Hadoop, EMR) Github

 Carried out data analysis on 130M+ Amazon customer reviews and derived various Numerical Summarization, Filtering and Data Organization patterns using Hadoop map-reduce. Built a Recommender System to give smart recommendations to users.

## House Prices Prediction (Python, Tableau) Github

 Applied regression machine learning models to predict the price of houses and carried out exploratory data analysis on a dataset of 16000 records to understand the patterns and detect anomalies. Reduced RMSE from 0.1257 to 0.062 using recursive feature elimination for feature selection.

## **EXPERIENCE**

June 2015-Sept 2017

## Data Analyst | Vidya Technology Solutions

Built a Python & Internet of Things (IoT) based Automated Machine Monitoring & Alarming System. Collected real-time data from sensors attached to CNC machines. Carried out data preprocessing on sensor values and performed diagnostic data analysis to identify patterns in machine's key performance indicators. It resulted in reduction of average machine maintenance cost by 20%.

Oct 2013-Sept 2014

#### Business Intelligence Engineer | Tata Consultancy Services

- Solved Data Reconciliation problem by creating 12 different types of business reports using customer usage and payments data which resulted in loss prevention of \$1.5 million. Created multiple visualizations using Tableau and SSRS to present business operation KPIs to management which gave a unified view of data from multiple databases.
- Integrated data from multiple sources by designing ETL packages.
  Performed data analysis by building complex MySQL queries, functions, stored procedures as a part of reconciliation solution.