SAYALI WALKE

330 3rd Ave W, Unit 625, Seattle, WA 98119 ♦ 2067519440 ♦ walke.s@husky.neu.edu
https://www.linkedin.com/in/sayali-walke-7712b874/
https://github.com/sayaliwalke30/

EDUCATION

Northeastern University, Seattle **Expected 2020**
Master of Science in Information Systems (Data Science & Machine Learning concentration) **[GPA 3.85/4.0]**
Government College of Engineering, Aurangabad, India **May 2013**
Bachelor of Engineering in Electronics and Telecommunication **[GPA 4.0/4.0]**

SKILLS

- **Programming:** Python, Java, SQL
- **Tools:** Microsoft SQL Server, Tableau, PowerBI, Visio, Jupyter Notebook, MATLAB, Amazon Redshift, Azure Machine Learning, SSAS, SSIS, SSRS
- **Data:** Machine Learning, Predictive Modeling, Data Visualization, Data Exploration, Data Cleaning, Data Analysis, Data Mining, Business Intelligence (BI), Statistics & Statistical Analysis, Python ML Libraries

ACADEMIC PROJECTS

Aircrafts Performance Analysis (Python, Tableau)
- Integrated 800,000 launching records of 1000 aircrafts and analyzed the launches in an informative way using interactive visualizations to explain aircraft performance.
- Discovered interesting patterns like seasonality, poorly performing parts using time series analysis and outlier launches for aircraft maintenance team.

House Prices Prediction (Python, Tableau)
- Applied regression models to predict the price of houses and compared results of Linear Regression, Lasso Regression, Ridge Regression and 3rd degree polynomial Regression algorithms.
- Carried out exploratory data analysis using dataset of 16000 records to understand the patterns and detect anomalies as well as used recursive feature elimination for feature selection.
- Created insightful visualizations in Tableau to understand trends, patterns and outliers in dataset.

Diabetes Prediction (Python, Tableau)
- Implemented machine learning model for predicting if a patient has diabetes based on diagnostic measurements.
- Fitted the best possible model with 83.83% accuracy by performing data set preprocessing, feature selection, regularization using Lasso and Ridge regression.

Biometric Authentication System (MATLAB)
- Devised a camera-based bio-metric system using image processing to verify user's identity.
- Executed feature extraction using PCA (Principal Components Analysis) algorithm for exploratory data analysis.

WORK HISTORY

Systems Engineer (Business Intelligence) **Oct-2013 to Sept-2014**
Tata Consultancy Services (PL/SQL, Tableau, SSAS, SSIS, SSRS, ETL, Unix)
- Generated & supported 12 types of business reports, created multiple visualizations using Tableau and SSRS to reconcile data from four different databases. Regularly shared business KPIs with stakeholders which in turn led to preventing loss of $1.5M.
- Developed complex PL/SQL queries, functions, stored procedures to aggregate and analyze data from multiple databases.
- Designed ETL packages to integrate data into SQL server.

Development Engineer/Data Analyst **June-2015 to Sept-2017**
Vidya Technology Solutions Ltd (Python, Java)
- Collected real time data from sensors, processed the streaming data and stored sensor values on cloud. Successfully interpreted data and presented conclusions to improve system efficiencies and to reduce average machine maintenance cost by 20%.
- Implemented end to end data pipeline for Vehicle Performance Management System which aggregated real time vehicle data, published it to google cloud. Performed insightful data analysis, created visualizations and reporting which resulted in optimizing average maintenance cost of vehicles by 17%.

CERTIFICATIONS

Microsoft's Data Science Essentials
Udemy's Python for Data Science & Machine Learning
Udemy's Data Analytics with Tableau
Machine Learning by Stanford University (Andrew Ng)