SAI SIVARAM SAKETH VOOTLA

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EDUCATION

Northeastern University Master of Science in **Information Systems** May 2023

Coursework Includes: Data Science Engineering Methods and Tools, Application Engineering Development, Data Management and Database Design, Big Data Systems and Intelligence Analytics

SRM University, India Bachelor of Technology in **Electronics and Communication** May 2017

WORK EXPERIENCE

Vodafone Shared Services India- Data Analyst*;* Pune, India Aug 2017 – Feb 2020

- Implemented large-scale data ecosystems including Data Management, Governance, and integration of structured and unstructured data to generate insights leveraging cloud-based platforms
- Developed and maintained databases and analytical modelling platforms to automate real-time monitoring
- Executed performance analyses of the OLAP database leveraging SQL to report anomalies and reduce number of incidences by ~20%
- Detected data quality issues, identified root causes, applied fixes, & formulated data audits to capture issues
- Built scalable data pipelines using SQL that collect, transform, load, and curate data from various internal and external data sources. Work with ETL/ELT tools to sync data to/from multiple sources
- User Compliance and Role Governance: Administered Access Control Matrix and deployed Security Standards for each user
- Executed performance tuning to utilize maximum efficiency of various systems pertaining to BI, Java, ABAP, Fico, Supply Chain by optimizing processing times by ~40%
- Collaborated with Business Intelligence team and conducted ad-hoc analysis to generate reports using tools SAP BI & Data Integration studio
- Worked on multiple End to End integration scenarios among various combinations of SAP and non-SAP systems

TECHNICAL SKILLS

Programming Skills	Python, SQL, R, JAVA SE, Unix Shell Scripting, SAP ABAP
Databases	Oracle, Microsoft SQL Server, MySQL, Redshift
Cloud Platforms	AWS, Google Cloud Platform
Tools	MS Excel, Macros, Oracle Data Integrator, Power BI, Tableau, Git
Analytical skills	Data Pipelining, Data Visualization, Statistical Analysis, Machine Learning

ACADEMIC PROJECTS

Stock Market Price Prediction - *Python, Predictive Modelling, Time Series Forecasting* Sep 2021

- Extracted real time stock price data from internet operating pandas data reader
- Performed Exploratory Data Analysis using pandas to analyze trend in stock prices of 3 organizations
- Implemented exponential moving average and linear regression to predict price of a stock with R^2 of ~89%

Performance Measurement Application for Universities - *Java Swing, Lucid charts* Nov 2021

- Created a performance measurement solution enabling educational institutions to measure quality of education by tracking jobs and promotions of graduates over a 5-year period
- Identified key performance metrics and generated a university ranking system for prospective students
- Formulated a UI dashboard for university administrators to compare performance of academic units

Climate Change Prediction for COP 27 UN Conference - *Data Visualization, Machine Learning* Dec 2021

- Analysed ~10k records of real time climate change data from FAOSTAT and NASA GI SS websites and established trends of top 10 countries having highest and least temperature change
- Implemented modelling techniques (regression, moving average and ARIMA) to find best fit for data, achieved a R^2 of ~ 92%
- Predicted a >2° change in temperature difference which does not align with the COP26 Regulations and pointed out the repercussions to our ecosystem

Centralized Medical Application - *Java Swing* Dec 2021

- Designed & Developed a centralized application for Boston Medical services to provide a holistic approach to the hospital management system including 4 modules on Administration, Inventory Management, Customer support & Logistics delivery
- Created an automated Chat Bot (Alfred) through Dialog flow to handle multiple instances based on user requests

Healthcare Monitoring Application - *Java Swing* Oct 2021

- Engineered a CRUD application using historical patient data to identify people with abnormal range blood pressure for any age groups
- Applied different validation techniques to assess data quality and ensure data integrity while maintaining confidentiality