**MIHIR SAWANT**

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**Education**

**Northeastern University**, **Boston, MA, United States** **May 2020**

*Master of Science in Information Systems*

* Relevant Courses: Designing Advanced Data Architectures for Business Intelligence, Data Science Engineering, Database Management and Design, Network Structures and Cloud Computing

**Mumbai University, Mumbai, MH, India**    **Jun 2017**

*Bachelor of Engineering in Electronics Engineering*

* Relevant Courses: Structured Programming Approach, Object Oriented Programming

**Certifications**

* AWS Certified Cloud Practitioner, Amazon Web Services Training and Certification **May 2020**
* Tableau Desktop Specialist, Tableau **Feb 2020**

**Technical Skills**

**Programming languages:** Python, SQL, Java, HTML, CSS, C++

**Databases:** MySQL, MongoDB, MS SQL, Oracle SQL, PostgreSQL, Cassandra

**Machine Learning:** Classification, Regression, Clustering, Decision Trees, Random Forests, SVM

**Tools:** Talend, Alteryx, Tableau, PowerBI, Azure, SSIS, Google Analytics, Github, MS Excel

**AWS:** EC2, RDS, RedShift, ELB, CloudWatch, CodeDeploy, Lambda, CircleCI, S3, Terraform

**Work Experience**

**Database Intern, Applab Technologies, Mumbai Jul 2017- Sept 2017**

* Developed an application for management system in Java to handle data of 500 + students in MySQL server
* Normalized the data to 3NF to eliminate the redundancy to avoid inter dependencies between entities
* Engineered ER diagram and implemented functionalities using stored procedures and triggers
* Analyzed data to discover and interpret trends, patterns and relationships and created dashboards in Tableau

**Academic Projects**

***Northeastern University, Boston, MA***

**IMBD Data Warehouse Integration & Visualization *(MS SQL, ERStudio, Alteryx, Tableau*) Apr 2020**

* Led consolidation of data from 5 data systems for movie ratings and box office collection in Alteryx
* Fashioned 27 dimensions and 16 facts merging relational, unstructured and flat-file data structures using ERStudio
* Developed visualizations and dashboards for reporting and to satisfy ad hoc analysis requests and tracking

**NYPD accidents and complaints *(MS SQL, ERStudio, Talend, Power BI, Tableau*) Feb 2020**

* Modeled data warehouse with 3NF and developed SQL queries for data extraction to check format accuracy
* Implemented SCD-4, researched inquiries, validated data patterns and solved complex business problems using SQL
* Achieved 7% process optimization by data cleaning, profiling and integrated data into MSSQL using ETL processes

**Infrastructure and Web Application *(Terraform, AWS, MS Azure, PostgreSQL,*** ***Node.js, CircleCI*) Nov 2019**

* Built a networking infrastructure in Terraform for a web application and created IAM users, roles and policies
* Administered the data in RDS instance in PostgreSQL, DynamoDB and images in S3 buckets using API calls
* Implemented Continuous Delivery and Integration (CI/CD) over auto-scaling group with standard size of 3 instances

**Movie Recommendation System *(Content and Collaborative filtering, Ensembled Learning, Python)* Apr 2019**

* Chaired a team of three to implement a recommendation system for movies based on user inputs
* Optimized hyper-parameters to gauge the effect on Content Based Filtering and Collaborative filtering
* Evaluated Hybrid Models, K-means clustering, Light FM and compared to acquire accuracy of 0.901

**Reward Point based Movie Ticket Management System *(MySQL server, Toad Data Modeler*) Dec 2018**

* Engineered a database using MySQL to hold data for movie ticket bookings, normalized data to 3NF
* Developed ER model and implemented stored procedures and triggers to offer 3 reward points to redeem later
* Administered the database to prevent repetitive booking of one seat and offered selective permissions to users