MANSI PANDYA

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EDUCATION

Master of Science - Information Systems | Northeastern University, Boston, MA　　　　　August 2020
Relevant Coursework: Data Management and Database Design, Designing Data Architecture and Business Intelligence, Data Science Tools and Methods, Advanced Big Data and Indexing Techniques, Accounting and Budgetary for Engineers

Bachelor of Engineering - Computer Engineering | Nirma University, India　　　　　May 2018

TECHNICAL SKILLS

Databases	MySQL, Microsoft SQL Server, Oracle 11g, PostgreSQL
Programming Languages	Python, R, Java, SQL, HTML, CSS
BI/ETL	Talend, SQL Server Integration Services (SSIS), Alteryx, ER/Studio
Data Visualization	Tableau, Microsoft Power BI, Microsoft Excel (Pivot Tables, Pivot Charts, V lookups)
Machine Learning	Regression, Classification, Decision Trees, Random Forest, KNN, K-means clustering, PCA
Big Data/Cloud	MongoDB, Hadoop, MapReduce, Spark, Hive, Pig, AWS (RDS, DynamoDB, S3, EC2)

WORK EXPERIENCE

Casa Systems Inc, Andover, MA | Software Quality Assurance Engineer Intern　　　　　June 2019 - December 2019
- Performed functional and system level testing for 4G-LTE/5G features using LTE system validation
- Designed an automation regression suite in Python using Selenium WebDriver which saved the team's effort by 30%
- Implemented test plan designing, test module generation, conducted Smoke testing, Functional testing, Regression testing, Integration testing, Cross-browser testing and Data validation in an Agile environment
- Reduced propensity of similar defects in future sprints by a factor of 0.4 through root-cause analysis
- Developed RAN solutions for optimizing like Apex small cells, Axyom Element Management System (AeMS) and added IPsec security to support IPsec tunnels

DEV Information Technology Limited | Data Engineer　　　　　June 2017 - July 2018
- Worked with business users to understand their reporting and data needs
- Gathered, cleansed, transformed and analyzed various records coming from multiple networks and developed SQL queries to store desired parameters in the database that has reduced delivery time by 30%
- Automated old reporting mechanism (Excel sheets) to dynamic BI Dashboards using Tableau presenting data view across different metrics and KPIs saving up to 5 hours of manual report generation efforts
- Developed an automated program that identifies and stores the results in database to produce ad-hoc results
- Documented and evaluated test cases and performed functional, unit and end-to-end feature testing

PROJECTS　　　　　　　　　　　　　　　　　　　　　　　　　　　**github.com/mansik95**

Retail Data Warehouse (SQL, SSIS, Talend, Power BI, Tableau, ER/Studio, Alteryx)
- Designed a data warehouse in ER/Studio, pipelined and integrated huge dataset of 40 million records from multiple sources (CSV, MySQL, MS SQL Server, Oracle) using ETL techniques on SSIS, Alteryx and Talend
- Executed Slowly Changing Dimensions to maintain historical records, Error Handling, and Currency Conversion
- Devised various performance tuning techniques, thereby resulting in a total integration time of 22 minutes
- Built interactive dashboards to analyze retail sales and business insights using Tableau and Power BI

Recipe Management Django web Application (Django, PostgreSQL, Redis)
- Developed a RESTful web app with authentication for user to create and manage recipe using python Django
- Implemented APIs for CRUD operations on recipes and configured AWS RDS as a data store for the application
- Improved the application response time by adding Redis server to cache database queries

Global Terrorism Analysis (Python, Machine Learning, Tableau interactive visualizations)
- Used Python libraries such as Pandas, NumPy, Seaborn, Matplotlib, Scikit-learn to validate and manipulate data
- Implemented Exploratory Data Analysis, NLP techniques, and Machine Learning algorithms like Principal Component Analysis, Decision Trees, and Random Forests to foretell future impact and trend
- Predicted the successfulness of the terrorist attacks with an accuracy of 86% and generated visualizations using Tableau

REST API Prototype model (STS, Postman, Redis)
- Built a Spring Boot REST API to parse a given JSON schema and save the schema in a Redis key value store
- Demonstrated the use of operations like GET, POST and DELETE, PUT, PATCH
- Secured the REST API with OAuth, added Elasticsearch for data indexing, Kibana for data visualization and querying, Etag for caching and conditional requests

AIRBNB Booking and Rental Database (MySQL Workbench, Microsoft SQL Server)
- Modeled Entity Relationship for hotel booking which is a hospitality website that enables people to rent houses
- Normalized database to 3NF and implemented Views, Stored Procedures, Functions, Triggers, User access, Privileges, Transactions, Sub Queries, Joins, Backup and encryption of critical data such as passwords using MD5