

MANSI PANDYA

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EDUCATION

Master of Science - Information Systems | Northeastern University, Boston, MA

August 2020

Relevant Coursework: Data Warehousing, Business Intelligence, Big Data Systems, Machine Learning, Big Data Intelligence and Analysis, Advance Data Science, Data Analysis, Business Analysis

Bachelor of Engineering - Computer Engineering | Nirma University, India

May 2018

TECHNICAL SKILLS

Programming Languages	Python, SQL, R, Java, JavaScript, HTML, CSS, XML
Databases	MySQL, Microsoft SQL Server, Oracle 11g, PostgreSQL
Big Data	Redis, MongoDB, Hadoop
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	Regressions, Classification, Clustering, Decision Trees, Naïve Bayes Classifier, SVM
Cloud/Version Control	AWS (RDS, DynamoDB, S3, EC2), GitHub, Bitbucket
Tools	Eclipse IDE, STS, Jupiter Notebook, Android Studio, Visual Studio, Selenium, Postman

WORK EXPERIENCE

Casa Systems Inc, Andover, MA | Software Quality Assurance Engineer Intern

May 2019-November 2019

- Performed functional and system level testing for 4G-LTE/5G features using LTE system validation
- Automated Web Testing with Selenium WebDriver & GUI testing using Python framework
- Implemented test plan designing, test module generation, automated & manual test execution, hardware configuration, usability analysis, problem reporting, and documentation 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 Intern

January 2018- June 2018

- Analyzed various records coming from multiple networks and developed SQL queries to store desired network 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 python scripts to automate the reports and monitored Spark Jobs
- 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

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

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 NLP techniques to analyze data and classify based on positive, negative or neutral
- Applied Machine Learning techniques such as Exploratory Data Analysis, Principal Component Analysis, Decision Trees and Random Forests to foretell future impact and trend
- Predicted the successfulness of terrorist attacks using Decision Trees and Random Forests with accuracy of 86%
- Generated data visualizations (Tree map, Bar Graph, Scatter Plot) for attack type, region and target type using Tableau

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

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 JWT or OAuth, added Elasticsearch capabilities and Kafka system for REST API queueing