JENIL DESAI

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Education

Northeastern University, Boston (GPA 3.82/4.00) **Present**

*Master's in **Data Analytics** (**Statistics Modeling** Concentration)*

Key Courses – *Python System Technology, Data Mining, Data Management and big data, Predictive Analytics, Communication and Visualization, Fundamentals of Artificial Intelligence, Data Warehousing and SQL, Database management, Probability and Statistics*

GLS University, Ahmedabad (GPA 7.3/10) May 2022

Integrated Master of Science in **Information Technology (IMsc.IT)**

Key Courses – Advanced Python, *Machine learning, Data Science, AI and Robotics, Big Data Analytics, Data Structure and algorithms*

Technical Skills

Programming Languages: Python, R, Node.js, Angular.js, MySQL, Java, Elasticsearch, NoSQL
Analytical Tools: Jupyter Notebook, Tableau, Power BI, Salesforce, Qlik, Google Analytics, Alteryx, Azure
Libraries: Matplotlib, NumPy, Pandas, Scikit-learn, Kubeflow, TensorFlow, Snowflake, Keras, Plotly, PySpark, ggplot2, dplyr
Techniques and Statistics: Regression, Prediction Modeling, ETL, EDA, Time Series Forecasting, PCA, Text Mining, Clustering, Classification, Neural Language Processing, Support Vector Machine, Data Transformation, Penetration Testing and Deep Learning

Professional Experience

Graduate Teaching Assistant for Predicative Analytics | *Northeastern University* Jul 2023 - Oct 2023

- Guided 30+ students in Python and Machine Learning for Predictive Analytics
- Conducted interactive sessions on data modeling, cleaning, and ML concepts (K-nearest neighbor, Linear Regression, SVM, Random Forest, Logistic Regression, Decision Tree, and Text Classification)

Data Analyst | *Qeleo Technolabs* Jan 2022 - Aug 2022

- Implemented CI/CD pipeline for deploying analytical reports in Power BI and Tableau, presented to top management
- Optimized the ETL process with tools like Microsoft Query Editor, SQL, and Python, reducing data cleaning efforts by 25%
- Enhanced customer experience and boosted retention by 20%, leveraging in-depth analysis and A/B Testing for marketing campaigns
- collaborated on JIRA to address data inconsistencies and ensured data-driven decisions across departments, yielding a 15% revenue increase
- Achieved a remarkable 12% enhancement in forecasting accuracy through strategic implementation of machine learning techniques, including regression analysis, Decision Trees, and Gradient Boosting

Software Engineer Intern | *Inventyv Software Services Pvt. Ltd* May 2021 - Dec 2021

- Crafted a custom CRM model using AngularJS, Node.js, and JavaScript, highlighting creative problem-solving skills
- Engineered robust database architecture and APIs with Couchbase NoSQL and Elasticsearch for seamless integration
- Proficient in testing, debugging, and DevOps practices, CI/CD pipelines, contributing to a successful CRM launch and enhancing overall company performance

Technical Projects

Loan Risk Explorer: An Interactive Financial Analytics Solution - Python, Tableau & MS SQL Dec 2023

- Implemented ML models in Jupyter, achieving 90% accuracy in assessing loan risks, emphasizing data cleaning
- Efficiently managed loan data in MS SQL Server, ensuring integrity through a well-designed schema, and extracted critical information using SQL queries
- Developed user-friendly Tableau dashboards seamlessly integrated with MS SQL Server for exploring loan performance metrics

Health Prediction: Advanced Chronic Kidney Disease Modeling - Python, SQL Jun 2023

- Applied advanced predictive modeling methods, including Logistic Regression, Decision Trees, Random Forests, and Gradient Boosting, and Performed EDA with Imputation and outlier handling for comprehensive data analysis
- Achieved an impressive accuracy of 71% in predicting Chronic Kidney Disease, leveraging feature selection methods like LASSO regression and Forward/Backward selection

Data Analysis and Insights from the Current Population Survey Dataset - R, SQL APR 2023

- Conducted comprehensive data analysis of the Current Population Survey dataset, using data cleansing techniques and descriptive statistics to identify trends and insights
- Developed a predictive model using advanced techniques like linear, Lasso, and Ridge Regression with 15 predictors, achieving 85% accuracy in forecasting net family income. Factors considered include education, occupation, ethnicity, and marital status