

Mark Gopani

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EDUCATION

SYRACUSE UNIVERSITY, NY, USA.

January 2021-December 2022

Master of Science in Applied Data Science.

Relevant Coursework: Big Data analysis, Applied Machine Learning, Business Analytics, Data Analysis & Decision Making, Database Management.

NMIMS UNIVERSITY, Mumbai, INDIA.

July 2016-April 2020

Bachelor of Engineering in Information Technology

Relevant Coursework: Computer Networks, Advanced Data structures, Software Architecture, Human Computer Interaction, Management Information Systems.

EXPERIENCE

iConsult Collaborative at Syracuse University: | Data Engineer

August 2022-Present

- Collaborated with Non-Profit organization dealing with abolishing poverty in Onondaga County to design a high level dimensional model to digitize the application and training process for the organization.
- Designed database by creating fact and dimension tables by identifying key organization processes and source/target mappings from the given data for the online interface.
- Administered the integration of the website layout with the database server using SQL, tested database design and implemented by populating with test data.

Syracuse University Food Services: | Frontline Employee

March 2021-Present

- Served at 6 different locations on campus, with two locations having footfall of 1500 students daily.
- Showcased ability to follow frontline protocols and maintained a solid customer service record.
- Coordinated inventory with frontline keeping strong knowledge of all food preparation safety.

TECHNICAL SKILLS

Analytic tools	Python, R, SQL, Tableau, Google Analytics.
Advanced MS Excel	Lookup, Correlation, Regression, Forecasting, PowerView, Solver optimization, PowerQuery, Power Pivot.
Databases	MySQL, MS Access (Tables, Relationships, Queries), MS SQL Server, AWS S3, Azure Data Studio, ETL.
Python frameworks	Pandas, NumPy, Matplotlib, Scikit-learn.
Machine Learning	Decision Trees, Random forests, XGBoost, Regression, Generalized Linear Model, Feature Engineering.
Statistical tests	Hypothesis testing, A/B test, Statistical modeling, ANOVA, T-test.
Project Management	MS Project, Jira, Agile Methodologies.
Web Technologies	HTML, BootStrap, CSS, JavaScript, JQuery, PHP.
Software Packages	AutoCAD , Matlab, Netbeans.

RELEVANT PROJECTS

Sentiment Analysis on reviews from Rotten tomatoes: | Python (Scikit learn, Pandas), NLTK , Machine Learning Algorithms

- Analyzed dataset with 156k records after preprocessing using pandas framework.
- Trained an ensemble machine learning model (Decision Tree, Naïve Bayes) on the dataset to predict sentiments with 70% accuracy.
- Performed statistical analysis and exploratory data analysis to understand the performance of each model.

Analysis on Airlines data: | RStudio, Python, Orange3, Data Visualization

- Refined data that was collected over 45 years using discretization, tokenization and vectorizers.
- Developed data visualization (matplotlib, pandas) with Classification using Logistic Regression, SVM, Random Forest, K-means clustering and evaluated best models.
- Performed sentiment analysis with topic modelling on the reviews to pin down determinants showing why customers preferred certain Airlines over others.

Travel bookings App: | PowerApps, Azure Data Studio, MS SQL Server

- Created a SQL database and server in Azure, deployed the server database to cloud using Azure Data Studio and used PowerApps to create an application and deployed it for mobile devices.
- Performed Data modeling and wrote standard procedures, triggers, apart from writing queries to extract data.
- Mapped out the application interface design to manipulate the data in the database with adding restraints.

Awards and Certifications

- Microsoft Office Specialist, Expert Certification. (Microsoft Corporation)
- Deep Learning and Artificial Neural networks. (Udemy Course)
- MATLAB Image Processing and Graphical User Interfaces. (Udemy Course)