

# Tanvi Mutha

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## EDUCATION

### Northeastern University

M.S., Data Analytics

Dec 2020

GPA – 3.75

*Relevant courses: Probability & Statistics, Predictive analytics, Business Intelligence & Reporting -Data Visualization*

### Maharashtra Institute of Technology College of Engineering, Pune

June 2017

B.E., Computer Science

GPA – 3.5

## TECHNICAL SKILLS

Programming Languages	SQL, Python, R, HTML, MongoDB, CSS, JavaScript, AngularJS, C++, Java, NodeJS
Data Analysis Tools	Tableau, Snowflake, PowerBI, Oracle, Google Analytics, SAS, SSMS, DBMS
Python Libraries	Pandas, NumPy, Matplotlib, Plotly, Seaborn, Scikit-learn, Pyspark, ggplot, Tensorflow
Other Tools & Technologies	Apache Spark, Jupyter, MATLAB, AWS, Machine learning Algorithms, A/B testing, SAS
Online Certificates:	Python for Data Science & machine learning, Advance Tableau, SQL Bootcamp

## PROFESSIONAL EXPERIENCE

### Aspire Software Web

#### Data Analyst

June 2017 – Mar 2019

- Undertook data extraction by performing complex **SQL/Transact-SQL** queries using MS-SQL Server, increasing accuracy of regression analysis to 98%; performed data mining and **Tableau Dashboard** to support business decision to increase revenue growth
- Developed email marketing strategies with Client Success Team through user behavior data analysis; Created and deployed highly scalable & performance-oriented database for **unstructured database** such as **JSON** using **MongoDB**
- Accomplished statistical techniques like correlation, Chi-square, Confidence interval, hypothesis testing, and predictive modeling on **Supply Chain** data to help client with **decision making**
- Enhanced shopping experience for E-commerce business by **redefining** user web browsing experience and retain customers using AngularJS and UX; Led to **increase in sales** by 20% and achieved **customer satisfaction** through Recommender system
- Led a team of 5 to build an effective **Extract Transform Load (ETL)** data pipeline; analyzed unstructured data for building customers behavior model, implemented weekly **data visualization reports** for business insights

### IoCare

#### Software Developer Intern

Aug 2016 - Mar 2017

- Developed a Home automation system deploying Raspberry Pi and Designed a mobile application operating Ionic Framework to Control appliances, switching on/off, dimming light & storing operations in Real time
- Designed front-end using **HTML, CSS, AngularJS** and backend using **NodeJS, SQL**

## ACADEMIC PROJECTS

### Movie Recommender system

Mar 2020 - May 2020

- Developed a recommendation system from the movie lens dataset, giving personalized recommendations to users on their inputs, using Collaborative Filtering - SVD, Content-Based recommendation, and evaluated models by metrics such as Hit ratio and RMSE
- Increased accuracy by stacking content based and SVD based filtering to build hybrid Model

### House Prices: Advance Regression Techniques

Dec 2019 - Feb 2020

- Collected data on House prices consisting 79 attributes and 1460 instances to predict sales price of each home; Compared and evaluated performance of Decision tree, and Linear regression on prediction of land valuation
- Implemented hypothesis testing, advance regression model building deploying Python through different approaches like Exploratory data analysis, Feature selection, and Stepwise Regression

### SF Salaries dataset using Machine learning algorithm

April 2019 - Aug 2019

- Analyzed the dataset SF Salaries and accurately recognized salary change overtime between different groups, Base pay, Overtime pay. Concluded if there is pay discrimination based on gender leveraging Data mining Algorithms
- Calculated correlation between different fields of Dataset. Focused on models such as Linear, Decision Tree regression and K-means. Utilized libraries NumPy, Pandas, Seaborn, Scikit

### Grocery Database Management System

Aug 2018 - Dec 2018

- Created a Grocery Database Management System aimed for maintaining stock details, Record of sales, Product stock in store, customer details and feedback
- Database Management system aimed Manager to review the status of inventory quantity and restock products accordingly using Unique Id and password. Developed a mobile application utilizing NetBeans, C++ and SQL