

# Tanishqa Shetty

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## EDUCATION

### University of Washington

Seattle, WA

Master of Science in Information Management (GPA- 3.93/4)

Sep 2022 - Jun 2024

**Coursework:** Data Engineering, Data Mining, Machine Learning, Advanced Statistics, Data Visualization

### University of Mumbai

Mumbai, India

Bachelor of Engineering – Computer Engineering (GPA- 9.23/10)

Aug 2017 - Jun 2021

**Coursework:** Artificial Intelligence and Soft Computing, Big Data Analytics, Data Warehousing & Mining, Data Structures & Algorithms, Statistics, Software Engineering & Management

## TECHNICAL SKILLS

**Programming-** Python, SQL, R, C, HTML/CSS, Spark, Sci-Kit Learn, Tensorflow, Numpy, Pandas, Matplotlib, Streamlit, Seaborn

**Tools-** Linux/Windows/OS X CLI, AWS S3, AWS EC2, Tableau, Microsoft Power BI, Jupyter Notebook, Airflow, HDFS, Hive

**Certifications-** GCP Associate Cloud Engineer, Google Analytics Individual Qualification, Tableau Desktop Specialist

## WORK EXPERIENCE

### University of Washington

Seattle, WA

*Data Engineer Intern*

Mar 2023 – Present

- Engineered ETL pipelines to **integrate 8 data sources into a centralized data warehouse**, improving data accessibility & facilitating the FP&A team with data-driven decision-making capabilities
- Collaborated with senior data engineers to **optimize SQL queries, reducing query execution time by 20%** and improving overall database performance
- Implemented **Spark Jobs for Big Data (~ 100 GB ) ETL Operations** using Azure HDInsight, Data Factory, and Power BI

### Quantiphi Inc.

Mumbai, India

*Business Analyst*

June 2021 – June 2022

- Performed **exploratory data analysis on large datasets using Python and SQL**, identifying key trends and insights that led to data-driven business decisions resulting in a ~2x revenue growth
- Leveraged Azure SQL query results to perform **preliminary data visualizations and conducted advanced analyses, like Outlier Detection**, on demographic & behavioral attributes to identify potential customers, hence reducing marketing costs by 17%
- Engineered a **churn prediction model** using **XGBoost Algorithm alongside RFM Analysis** using GCP BigQuery & AI Platform and automated pipelines using Cloud Scheduler, **improving consumer retention rates by 20%**
- Collaborated closely with **cross-functional teams to ensure seamless implementation of developed solutions**, resulting in a **20% increase** in overall efficiency

### 1 Martian Way

Mumbai, India

*Machine Learning Intern*

Nov 2019 – June 2020

- Developed a multi-class object detection model for a warehouse **using Faster-RCNN-Inception-V2 model for configuring the hyperparameters** during model training, reducing manual efforts by 5+ hours/day
- Achieved 10% accuracy improvement through **OpenCV-based image augmentation**

## PROJECTS

### Airflow Data Pipeline for Stock Prices

- Orchestrated a data pipeline using Airflow for consumption of stock prices utilizing **HDFS and Hive** to store stock prices

### News Aggregation via Google News Web Scraping

- Scraped 20,000 Google News articles to aggregate current affairs across the world to analyze public sentiments through visualization, and compare sentiments at different timelines using **NLP techniques like Textblob**

### Sales Forecasting Model

- Developed a sales forecasting model using **time-series analysis and Seasonal ARIMA**, resulting in a 10-15% improvement in seasonal sales

## AWARDS & LEADERSHIP EXPERIENCES

- Recipient of BECU Term Scholar & Dean's Scholarship Award for being a top admit to the graduate program
- Awarded grant worth \$5000 from Microsoft's AI for Earth Program to build models that monitored coral reefs using AI
- Operations Lead for Women Who Code Mumbai chapter, led 7 successful event campaigns alongside 9 volunteers