

# Anisha Ganeshkumar

+1(617)-949-6446 | [anisha.ganeshkumar@gmail.com](mailto:anisha.ganeshkumar@gmail.com) | [Linkedin Profile](#)

## EDUCATION

### Northeastern University, Boston, MA

Dec 2020

Master of Science in Engineering Management

GPA: 3.737

Courses: Database Management and Database Design, Data Visualization, Data Mining, Probability, Statistics

### Anna University, Tamil Nadu, India

May 2018

Bachelor of Engineering in Electronics and Communication Engineering

## EXPERIENCE

### Zurich North America Insurance, Schaumburg, IL

Apr 2021 – Present

#### Catastrophe modeler

- Quantified estimated Insurance losses using Quarterly modeling analysis on 12 Natural Catastrophe portfolios with insured value as large as \$600 B (**RMS**)
- Constructed **Power BI** dashboards to report the CAT loss reports, assisting management in making business decisions
- Conducted **Market share analysis** to compare Zurich's CAT losses to the total industry losses for different return period events and scenarios
- Evaluated and reported event responses, exposure accumulations against complex hazards using **QGIS**
- Summarised **ad-hoc reports** on model parameters, exposure and losses utilizing Excel VLOOKUP, pivots and SQL scripts

### Guy Carpenter, Marsh & McLennan companies, Philadelphia, PA

Jan 2020 – Aug 2020

#### Catastrophe modeling analyst Co-op

- Prioritized and performed end-to-end risk analysis for natural catastrophes, terrorism for 14 client portfolios using probabilistic loss estimate models to quantify potential company losses (**AIR/RMS**)
- Assessed the **data quality** of client portfolios with various lines of businesses, **identifying key factors** leading to estimated annual losses (**Excel/R/Python**)
- Improved modeling assumptions and techniques, **reducing loss estimates up to 21%**
- Created Complex **SQL scripts** to automate exposure and loss reports, **reducing processing time by 79%**
- Reduced manual processing time by collaborating with cross-functional teams to build **an automation tool** for data transformation between different model vendor software using R shiny and SQL

### Renault, Coimbatore, India

Jan 2018 – June 2018

#### Data management analyst intern

- Designed ETL tasks in SSIS to migrate data from distributed systems to revamped data warehouse used by various cross-functional teams, **increasing query efficiency by 14%**
- Ensured the data integrity, validity and Generated ad-hoc KPI reporting dashboards in tableau to track sales pipeline

## ACADEMIC PROJECTS

Project Repository: <https://github.com/AnishaGaneshkumar>

### Airbnb Visual Analytics

Sep 2019 – Nov 2019

- Pre-processed the data in R and created interactive tableau dashboards to provide insights, detecting interesting trends

### Automotive Service Database Management System

Feb 2019 – Apr 2019

- Designed and developed a database with an ER model, DDL scripts, Stored procedures, Triggers and Sub-queries

### Predictive Analysis on MBTA Commuter rail

Feb 2019 – Apr 2019

- Built and validated a linear model on real-time MBTA data to predict the dwell time of commuter rail with 83% accuracy

### Analysis on Forest fire dataset

Jan 2019

- Implemented Exploratory analysis and predicted fire area covered based on the environmental factors using Random Forest algorithm with 94% accuracy

## TECHNICAL SKILLS

- Catastrophe modeling:** AIR, RMS, MetaRisk tool suite, Touchstone Re, Catrader, GC AdvantagePoint, QGIS
- Business intelligence:** Tableau, Power BI, Alteryx, SSIS, Qlik view, MS Excel
- Databases:** MS SQL Server, Oracle, MySQL
- Programming:** SQL, R, Python, R Shiny, C++, HTML
- Other tools:** AWS cloud, GitHub, MS Project, Microsoft Office Tools