Ashutosh Singh

Catastrophe Risk Analyst

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Dedicated and detail-oriented analytics individual with a proven track record in catastrophe risk analysis, data analysis, predictive modeling. Strong experience in delivering data insights reports to all stakeholders and managing excellent relationship with both external and internal team members. Having a master's in Business Analytics and Management expanding my data analytics learning in latest techniques and tools with emphasis on project management and effective written and verbal communication for business growth. Proven expertise in SQL, MS office tools (Excel, Word, Powerpoint, Power BI) with a demonstrated ability to manage large datasets, perform complex data transformations, and deliver actionable insights to enhance business decision-making. Adept at bridging the gap between business needs and technical solutions, ensuring that data-driven strategies are effectively implemented.

Areas of Expertise

- Catastrophe Risk Analysis
- RMS & AIR
- Geospatial Mapping
- Advanced MS Excel & SQL
- (Re)Insurance

- Data Analysis
- Reporting & Analysis
- Statistical modelling
- Project management and Collaboration

- Teamwork & Communication
- Stakeholder Relationship Building
- Problem-solving and Analytical thinking

Professional Experience

Gallagher Re, Mumbai, India
Catastrophe Risk Analyst | Senior Advisor   December 2020 — September 2023

A key member of Japan team in APAC region, having in-depth reinsurance knowledge with catastrophe risk analysis experience of working on more than 5 client datasets every year for several perils. Proactively contributed in various tasks ranging from data preparation, transformation, running and preparing input files to be processed on vendor models (RMS & AIR), leveraging both SQL and MS Excel, result reports preparation, thorough loss report analysis, documenting results and key insights to be shared with clients, directly communicating with client from data arrival to result delivery along with assisting team members and clients on all the queries, conducting training for graduate joiners and senior team members on various datasets and also on RMS & AIR. Dynamic approach allowing to work within cross team projects, assisting and learning new and updated approaches from leaders.

- Led data analysis and catastrophe risk modelling using SQL, Excel, Power BI, and vendor models (AIR, RMS, RMS HD) to enhance risk assessment and portfolio analysis.
- Developed and automated SQL scripts, reducing data cleansing and standardization time by 40%, boosting overall process productivity by almost 50%.
- Spearheaded four major projects for key clients of APAC team(JAPAN Pod), improving the accuracy of catastrophe risk assessments and delivering timely, real-time loss estimates during catastrophic events.
- Actively worked on renewal projects and successfully handled more projects year-on-year, always got appreciated for the results quality and accuracy from clients and senior management.
- Collaborated and proactively communicated with reinsurance stakeholders to refine pricing models and assist with planning & execution for risk assessment strategies, significantly streamlining operations.
- Data mining: Drafting detailed reports, documented by thoroughly analysing the predicted results and finding the key cause driving the portfolio loss results, even a minimal difference of 1.5% in year-on-year trend, justified by analysing the large dataset containing millions of records.
- Collaborating with different region teams for knowledge sharing and keeping up to date about the business trends, ensuring excellent decision making through continuous learning.
- Managing timely and comprehensive communications, proactively presenting findings and recommendations to be followed.

Education

Master of Science in Business Analytics and Management

University of East Anglia, Norwich, UK (25th Sept 2023 – 25th Sept 2024)

Dissertation Research on 'Enhancing e-commerce sales trends using Business analytics and Business Intelligence'
- Building and leveraging linear regression predictive modelling for sales forecasting and comparing the results with the exploratory data analysis results.
- Performed descriptive analytics and predictive analytics, prepared results using both methods and found useful insights from both the cases, using a large dataset and then tested the hypothesis of comparing the descriptive results versus the predicted results. Answered the hypotheses based on the accuracy of these results.
- Develop and test predictive models on R, validated the model and gained an accuracy of 63% irrespective of less variables in dataset.
- Analyze the financial records and their relations with respect to other variables.
- Presenting the detailed report along with the detailed research plan along with risks involved.
- Timely communicating and updating the project plan.
- Learning outcome: R programming, develop and test predictive models on R, Linear regression, EDA, Descriptive analysis, Business Intelligence and analytics core principles and techniques, CRISP-DM, data analytics, research skills, sales forecasting and statistics.

Bachelor of Electrical Engineering
Mumbai University, India, 2018

Professional Development & Certifications
- Certified Data Analysis Associate
- Project management Professional foundation

Technical Proficiencies
- Microsoft 365 (Excel, Word, PowerPoint, Power BI)
- Programming: R, SQL, C++ and Java

Core competencies
- Leadership
- Analytical Thinking
- Decision making
- Communication
- Teamwork
- Adaptability
- Risk management frameworks
- Insurance Underwriting
- Time management

Languages
English: Advanced