Atisha Rajpurohit

📅 Washington D.C. | 🛅 LinkedIn | 🌭 (571) 351-3630 | 💌 ar1710@georgetown.edu | 🗘 GitHub **EDUCATION**

Georgetown University

Aug 2021-May 2023

MSc. in Data Science and Analytics, GPA: 3.97
Relevant Coursework: Probability Modelling and Statistical Computing, Natural Language Processing, Advanced Data Visualization, Data Structures and Algorithms in Python, Big Data and Cloud Computing, Machine Learning App Deployment

Mount Carmel College, Bangalore University

May 2014-Apr 2017

BSc. in Economics, Mathematics and Statistics, GPA: 3.89

Relevant Coursework: Financial and Public Economics, Econometrics, Applied Statistics, Statistical Inference, Sampling Theory, Industrial Statistics, Operations Research, Differential and Integral Calculus, Linear Algebra

WORK EXPERIENCE

Ernst and Young's Quantitative Economics and Statistics (QUEST), Washington D.C.

Jun 2022-Current

Statistical Staff Analyst

Designed and chose statistically valid and representative samples for clients for the purposes of establishing tax credits/deductions

Computed tax credits/deduction estimates for clients using complex statistical extrapolation methods

Computed tax credits/deduction estimates for clients using complex statistical extrapolation methods
 Wrote statistical sampling and estimation methodology reports for clients to cover the scope of the entire project for process documentation and future possible audit defense
 Conducted SAS Introductory training for fellow colleagues to aid in the understanding of the sampling and estimation process along with advanced code writing in SAS
 Mercer, Marsh & McLennan Group, Mumbai
 Assistant Manager, Wealth Analytical Services (WAS)

Calibrated Mercer's tracking software, 'Pfaroe', amended the assumptions and cash flow setup to increase efficiency over 100% by reducing the standard hours from 3 to 2 hours for most clients
 Hosted training of core actuarial concepts, BAU processes for new recruits by creating training videos, providing dummy processes, and building an interactive feedback session
 Award- December 2019 by the head of WAS, for exceeding the productivity target of 100% by 12%
 Jardine Lloyd Thompson (now Mercer), Mumbai

Mar 2018-Sep 2019

Actuarial Analyst

Executed triennial valuations, annual updates for DB Pension Schemes, UK (Trustee Solutions) and annual accounting disclosures for UK (Corporate Solutions) on accounting standards: FRS17, FRS102, IAS19, ASC715
Strategized workflow management which required allocating work to members of the team subject to each one's capacity to meet the target of 95% Service Level Agreement
Award- 'Spotlight', December 2018 for delivering highest client utilization metric of 85% in the team

PROJECT EXPERIENCE

Simplifying Autism Spectrum Disorder Screening

Determined the top 3 characteristics relevant to adequately establish ASD traits in toddlers, children, and adults Developed models with these characteristics using Logistic Regression and Random Forest to achieve 92% accuracy Data Visualization to help Retail Investors

Created visual tools to aid a user with sectoral and individual technical analysis, to illustrate the growth of 100\$ invested for 7 years

Constructed a narrative with interactive visuals to elucidate fundamental analysis for stock selection based on 5 prime fundamentals

 News Classification as per Political leaning
 Executed NLP pipelines in Python such as POS tagging, Dependency Parsing and Named Entity Recognition to distinguish articles as conservative, liberal or neutral

Classified into the three political leaning categories with 80% accuracy using Multinomial Naïve Bayes, Logistic Regression and BERT

ACTUARIAL CERTIFICATIONS

Society of Actuaries, SOA

ExamP - Probability: A/B Testing, ANOVA, Parametric & Non-Parametric tests

ExamFM – Financial Mathematics: Interest Rate Models, Equations of Value, Annuities

ExamSRM – Statistical for Risk Modelling: Time Series, Generalized Linear Models (GLM), Decision Theory, Bayesian Statistics

ExamIFM – Financial Engineering: Efficient Market Hypothesis, Portfolio Theory, Stochastic Calculus, Black-Scholes Model, **Options & Greeks**

Exam LTAM – Long-Term Actuarial Mathematics: Contingencies: Annuity Contracts, Profit Testing, Mortality & Standardization Exam STAM – Short-Term Actuarial Mathematics: Markov Chains, Survival Models, Graduation & Statistical Tests

VEEMATHSTATS - Mathematical Statistics

VEEACCTFIN – Accounting and Finance: Financial Institutions, Derivatives, Accounts, Capital Project Appraisal VEEECON – Economics: International Trade, Balance of Payments, Money & Interest Rates, Macroeconomics

SKILLS & INTERESTS

Technical: SAS | Python (NumPy, Pandas, Matplotlib, Seaborn, Sklearn, Wordcloud) | R (Stringr, Tidyverse, Arules, Visnetwork, Rpart, ggplot2) | SPSS | HTML | CSS | SQL | Tableau | Minitab | Excel | **Dev**: GitHub, Jupyter Notebook, VS Code | **AWS Cloud**: EC2, SageMaker, EMR, Hadoop, Dask, Spark **Language**: English, Hindi, French, Marathi **Interests**: Multi-media sketching & painting, Mimicry, Personal Finance