

# ISHA KHURANA

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Business Integration Manager with professional experience in business analytics, data modeling and project management

## EDUCATION

### **Rochester Institute of Technology, New York**

August 2019 to December 2020

Master of Science in Computational Finance (STEM)

GPA: 3.92/4.0

Coursework: Business Analytics (Python), Data Management & Analytics, Financial Analytics (R programming), Mathematics of Finance, Advanced Derivatives, Debt Analysis, Equity Analysis

### **Amity University, India**

July 2018 to June 2019

Post Graduate Diploma in Global Financial Markets.

### **University of Delhi, India**

July 2014 to June 2017

Bachelor of Commerce (Honors)

## SKILLS

**Financial Modelling:** Derivatives Pricing, Asset Pricing, Risk Modelling, Numerical Modelling, Portfolio Analysis & Management

**Languages / Software:** Python, Jupyter Notebook, MS Excel, R Programming, Magento 2.0, Oracle NetSuite, JIRA, PL/SQL, R Studio, SQL, Git, Tally ERP 9.0

**Financial Databases:** Bloomberg, WRDS, Yahoo Finance

## WORK EXPERIENCE

### **Auto Rim Shop LLC, New York**

**Manager of Business Integration** Feb 2021 - Present

- Built 80% of company's product catalog by releasing multiple product lines on the website and other ecommerce platforms
- Developed best practices for data cleaning & transformation
- Built scripts to automate repetitive tasks & to generate daily reports, thereby, saving overall time by 95%
- Improved project management & task tracking for multiple projects across the company

### **Rochester Institute of Technology, New York**

**Graduate Assistant** Sep 2019 – May 2020

- Worked on various research papers that involved data extraction, cleaning, and transformation via python scripts
- Applied various data transformation techniques to perform statistical and factor analysis using SPSS, R, Python, Qualtrics & Excel

### **National Collaborative Center for Facility Based**

**Newborn Care, India**

**Accounts Officer** Aug 2017 – Jul 2019

- Book-keeping, payroll accounting and inventory management
- Prepared quarterly/yearly budgets and financial reports
- Single handedly migrated to a new accounting & finance system in 4 weeks
- Collaborated with >1000 trainers & trainees nationwide to handle their expenses & reimbursements

### **Chokoking.in, India**

**Co-Founder** Oct 2016 – Jun 2017

An e-commerce venture operating in food industry that achieved a loyal customer base with 60% repeat orders.

- Conducted market research by analyzing data through surveys
- Performed website management and developed strategies for performing effective SEO

## PROJECTS

### **Covenant Violation Finder (Python & MATLAB):**

- Extracted 10-Q and 10-K filings of US firms from SEC EDGAR database, conducted textual analysis to identify filings with possible covenant violation to generate descriptive statistics and correlations using WRDS dataset.

### **Fiscal Stress Score (Python):**

- Imitated the computation model, by 100%, for calculating fiscal stress score developed by Office of New York State Comptroller (OSC) to provide stress scores for each town in New York state.
- The score is calculated based on financial indicators/ratios and used for various trend analysis using Exploratory Data Analysis for consultancy services.

### **Database Management System (SQL & Oracle):**

- Created an oracle application for Student-Course Evaluation and Instructor Performance Evaluation.
- Designed a database solution in apex oracle for managing inventory and implementing checkout process of a small international grocery store.
- Worked full stack from front end (creating & designing the UI) to back end (creating tables). Fetched complex data from multiple tables using SQL queries.

### **Default Probability in Marketplace Loans (Python):**

- Built a 73% accurate logistic regression model using scikit-learn package to predict loan default probability in Marketplace Loans based on factors explaining default like loan purpose, annual income, current housing situation, interest rate, credit history, indebtedness, and interest rate.
- Conducted Exploratory Data Analysis and created a presentable descriptive analytics report on the LendingClub data using pandas profiling package in Python.

### **Portfolio Optimization (R & SAS):**

- Identified optimal asset allocation for a portfolio by applying Mean-Variance portfolio optimization and Monte Carlo simulation techniques. Thereby, maximizing the total return of the portfolio at the given risk by 50%. Used R(ggplot2) to plot mean-variance for feasible set of portfolios to visualize the highest sharpe ratio

### **Factors pertaining to determinants of Audit fees (Python):**

- Predicting what factors are best to explain the variations in Audit Fees of a company, both individually and all together, from Compustat & Audit Analytics database via Exploratory Data Analysis (EDA) and Regression analysis with 60% accuracy.
- This model can help companies to assess fees (paid to external auditors) in advance, thereby proving helpful to the stakeholders

### **Pricing Derivatives (R & MATLAB):**

- Used Monte-Carlo & Black Scholes methods for pricing options in complex situations where the payoff is either path dependent (e.g., Lookback options, Asian options and Spread options) or is dependent on a basket of underlying assets (rather than just a single asset) with 99.99% accuracy.

## CERTIFICATIONS

**Certified Management Accountant CMA**

Institute of Management Accountant | IMA

**Bloomberg Market Concepts (BMC)**

Bloomberg LP

## AWARDS

- Awarded Turri & Browne Business scholarship for academic excellence by RIT
- Awarded 40% annual merit scholarship by RIT

## ORGANIZATIONS AND CLUBS

- Institute of Management Accountant NY Chapter
- Animal Haven, NYC