

SUHANI MISHRA

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EDUCATION

University of Maryland, Robert H. Smith School of Business

College Park, MD, USA

Master of Science in Business Analytics: **GPA-3.85/4**

Aug 2021–Dec 2022

- **Teaching Assistant:** Introduction to Programming for Information Science
- **Vice President, Finance:** Smith Masters Business Analytics Association
- **Coursework:** Big Data and Artificial Intelligence, Data Mining, Predictive Analytics, Data Visualization and Web Analytics

Chartered Financial Institute

USA

Cleared CFA Level 1

Dec 2019

- **Coursework:** Quantitative Methods, Corporate Finance, Fixed Income, Derivatives, Portfolio Management, Equity

University of Pune

Pune, India

Bachelor of Engineering in Computer Science: **GPA-8.64/10**

Jun 2019

- **Coursework:** Data Structure & Algorithms, Data Analytics, Database Management Systems, Artificial Intelligence

WORK EXPERIENCE

University of Maryland, Robert H. Smith School of Business

College Park, MD, USA

Graduate Research and Teaching Assistant

Jan 2022–Present

- Performed extensive data cleaning and transformation on options data to understand events that affect price movements of underlying security.
- Implemented regression techniques including linear regression, ridge regression, feedforward neural network regression, and random forest regression to predict underlying security's future realized volatility.

KPMG Global Services

Gurugram, India

Data Analyst

Aug 2020–Jul 2021

- Quantified key revenue generation streams and performed peer group analysis for clients using PowerBI dashboards.
- Automated tasks using Robotic Process Automation to cut down manual tasks and streamline operations, resulting in ~**30%** productivity gains.
- Prepared analytical company snapshots involving financial study and performed sentiment analysis on broker reports.

Sagitec Solutions Pvt Ltd.

Pune, India

Software Engineer

Jul 2019–Jun 2020

- Facilitated development of predictive fraud detection model in unemployment insurance tax and benefit solutions.
- Employed behavioral, demographic, and operational analytics using neural network machine learning for tax solution.
- Developed Tableau dashboard to measure potential fraud in terms of benefit amount, overpayment amount, and fraudulent amount.

SKILLS & CERTIFICATIONS

- **Tools:** Tableau, PowerBI, Microsoft Excel, RPA, CPLEX, Google Analytics, AWS, Spark, Hadoop, Jira, Git
- **Modeling:** Statistics, Data Mining, Recommendation Engines, Scikit Learn, Time Series Forecasting, NLP, TensorFlow
- **Programming languages/Packages:** Python, R, PySpark, PyTorch, SparkSQL, Keras, SQL, Oracle
- **Certifications:** Advanced Portfolio Construction and Analysis with Python - Coursera, Project Management Virtual Experience – Accenture, Feature Engineering - Kaggle

PROJECTS

Spotify Song Genre Predictor

- Predicted genre of songs using 20 features and compared performance using various classifiers including k-NN, DecisionTrees, Random Forest, Bagging and Boosting on a dataset of 130k Spotify songs.

Efficient Frontier Model using Python

- Generated multi-asset efficient frontier with capital market line using Sharpe ratio.
- Developed modules to compute VaR and CVaR for various assets using Historic, Parametric and Cornish Fisher techniques.

UMD Alumni Association Data Analysis

- Modeled Gaussian process and Kernel regression to predict first time attendees and major prospects for future events.
- Analysed impact of various factors on event participation and recommended strategies for increasing percentage of major prospects.

Visual Question Answering Model

- Performed exploratory data analysis on the VQA dataset and compared performance of different CNN models.
- Developed a model using Keras LSTM and CNN to answer open ended questions on imaged with 77.02% accuracy.