Ishika Arora

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SUMMARY

MS Analytics candidate with four years of experience in analytics & modeling, looking for internship/full-time position in a Data Science or Machine Learning role with focus on business applications

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY
Master of Science in Analytics
Computational Data Analytics
Expected Dec 2019 | Atlanta, GA
Cum. GPA: 4.0 / 4.0

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
B.Tech in Biotechnology
May 2014 | Roorkee, India
Merit Scholarship (All Semesters)
Cum. GPA: 3.72 / 4.0

COURSEWORK

GRADUATE
Machine Learning
Data And Visual Analytics
Modeling And Simulation
Analytics Modeling
Regression Analysis
Pricing And Revenue Analytics
Data Analytics for Business
Deterministic Optimization

UNDERGRADUATE
Object-Oriented Programming
Web Designing And Development
Mathematical Modeling
Operations Research

SKILLS

PROGRAMMING
• R • Python • C/C++ • Java • SQL
• MATLAB • HTML • CSS • JavaScript

SOFTWARE/DATABASES
• MemSQL • SQLite • MongoDB
• Xpress • Tableau • OpenRefine
• SAS • Spotfire • AWS • Azure ML

TOOLS/FRAMEWORKS
• Scikit-learn • spaCy • D3.js • Pandas
• Hadoop • Spark • Pig • Hive
• DBSCAN • HBase • MapReduce

EXPERIENCE

STATE STREET CORPORATION | Data Analyst
Aug 2017 – Jul 2018 | Bengaluru, India
- Created predictive and descriptive models using 20-25 years of financial data
- Developed deposit rate prediction model in R using time series analysis, exponential fitting & autoregressive distributed lag (ARDL) modeling
- Designed automated ongoing monitoring and recalibration process for models using statistical tests to determine parameter threshold values and outliers

GOLDMAN SACHS | Quantitative Strategist
Jun 2014 – Aug 2017 | Bengaluru, India
- Designed strategies and research models for portfolio asset allocation using large datasets retrieved from relational and non-relational databases
- Created a web dashboard in JavaScript, and implemented data caching in MemSQL; reduced page load time by around 80% for faster decision making
- Developed backend and frontend liability infrastructure using workflow objects; achieved manual error reduction of 40% in storing cashflows data

ROBERT BOSCH ENGINEERING SOLUTIONS | Analyst (Intern)
May 2013 – Jul 2013 | Bengaluru, India
- Created a drowsiness detection system based on heart rate time series analysis
- Extracted time-domain and frequency-domain parameters from heart rate time series, and employed curve fitting methods to identify trends in MATLAB

PROJECTS

DRUG RESPONSE PREDICTION USING ML | Georgia Tech
Jan 2019 – Present | Atlanta, GA
- Predict individual cancer patient responses to therapeutic drugs using different machine learning algorithms like Deep Learning on gene expression profiles
- Create a structured, open-source code repository with comparison of model results to aid future research work on cancer drug response prediction

ASPECT AND OPINION EXTRACTION USING NLP | Georgia Tech
Aug 2018 – Dec 2018 | Atlanta, GA | bit.ly/nlpamazon
- Built an aspect-based NLP model on 130M+ Amazon reviews using spaCy language models to extract adjective-noun pairs and generate word vectors
- Trained a k-means clustering algorithm in Scikit-learn to group aspects
- Implemented the model in AWS using S3 buckets and EC2 instances, cached the results in SQL database, and built a Flask UI to show the final results

AIR QUALITY PREDICTION USING REGRESSION | Georgia Tech
Aug 2018 – Dec 2018 | Atlanta, GA
- Developed a multivariate regression model to predict air quality; implemented stepwise and Lasso regression for variable and model selection
- Identified non-linear relationship between response and predictors using transformations to address heteroscedasticity and find the best-fit model

LEADERSHIP

2018	Industry Relations Chair, Grad Society of Women Engineers (SWE), Georgia Tech
2016	Events Coordinator, Child Rights and You (CRY) Bengaluru Chapter
2015	Coordinator, "Women Emerging in Finance", Goldman Sachs India
2012	Promotions Coordinator, Cognizance - the Annual Technical Festival, IIT Roorkee