${f R}$ OHAN ${f S}$ INGH

Linkedin: https://www.linkedin.com/in/singhrhn

Github: https://github.com/ygivenx

EXPERIENCE

IBM

San Francisco, CA

Email: singhrohan@outlook.com

Mobile: +1-312-885-0056

Senior Data Scientist & Managing Consultant

July 2020 - Present

- Bias in actuarial models: Applied several research papers to understand the bias in actuarial data and understand its
 impact in light of COVID-19 and Black Lives Matter movement. Analyzed for factors such as credit score and traffic police
 stops. Also, designed a data pipeline to include fairness metrics in current models.

 Technology Used: Python, Deep Learning, GANs, Docker
- Covid Recovery Index: Lead a team of 4 to develop a COVID impact planning strategy for one of the top automobile insurer in the US by predicting the impact of COVID on driving at a county level with a MAPE of 10% for 500 large US counties using ping data from cellphones and other socio-economic and epidemiological variables. The aggregated signal was also fed into a demand sensing models at a state level.

Technology Used: python, pyspark, fbprophet, Tableau, postgres, IBM Cloud - Object Storage/Analytics Engine, SQL

IBM

San Francisco, CA

July 2018 - June 2020

- Data Scientist & Senior Developer
 - Advanced Automation Platform: Conceptualized an AWS Serverless architecture to automate claims processing for one of the top insurers in the United States. Lead and worked with a team of developers to implement and roll out to production within 4 months. Improved straight-through processing by 30%.
 - Technology Used: python, SQL, sqlalchemy, Terraform, Gitops, AWS lambda, SQS, DynamoDB, Step Functions, ECR, APIGateway
 - Legal Billing Anomaly Detection: Developed a proof of concept and later helped implement a full product for a Fortune 10 company to help them find anomalies in legal billing data using NLP and multi-class classification. Helped the client save over 20% in legal bills and reduce the review times by 90% per invoice for a particular subset of the legal billing category. Technology Used: python, spacy, NLP, flask
 - Search Optimization: Lead the effort to apply machine learning and Lucene to optimize the enterprise search i.e elasticsearch of a leading financial services client.
 Technology Used: python, flask, NLP, RNN, elasticsearch
 - Natural Language Classification: Developed a state-of-the-art classification system which classifies queries generated in natural language to a set of defined categories. Also, developed infrastructure using scala and AKKA http to support the machine learning models to be served on the network using a REST API.

Technology Used: scala, Spark ML, NLP, Akka Http, Java

Citadel LLC.
Software Engineer

Chicago, IL/London, GB

Mar 2014 - Apr 2017

- Data Quality Monitoring System: Developed an automated monitoring system to check the quality of external data from over 50 vendors using state-of-the-art statistical data analysis, resulting in 200% decrease in turnaround time in data check validations.
 - Technology Used: python, perl, bash, SQL Server
- Commodity Trading Modelling: Architect-ed a front-end interface, enabling the trading team to run models on-demand
 and make quick decisions. Revamped the legacy MS-Excel analysis system to use python along with modern scientific
 packages, reducing the model development and testing time exponentially.

 Technology Used: Django, python, SQL, HTML
- Future Pricing Model: Implemented a Future Value model to generate trading signals for soft commodity futures. Technology Used: python, Excel Solvers

EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Master of Information Systems Management; GPA: 3.87 (Highest Distinction, Dean's List)

May - 2018
Courses: Machine Learning, Distributed Systems, Database Management, NoSQL, Statistics, Data Structures, Optimization, Economic Analysis,
Practical Data Science, Managing Disruptive Technologies, Data Mining

Birla Institute of Technology

Mesra, India

Bachelor of Computer Science; GPA: 3.5 (7.70/10.0 - First Class with Distinction)

June - 2011

SKILLS SUMMARY

- Languages: Python, SQL, Java, Scala, Go, R, C++
- Tools & Skills: Data Science, Machine Learning, Analytics, Data Visualization, Deep Learning, Statistics, Data Mining, Terraform, Spacy, Spark, Tableau, Keras, TensorFlow, GIT, MS-Excel, IBM Cognos, Pytorch, Data Version Control, MLFlow
- Databases: Postgres, DynamoDB, ElasticSearch, MySQL, MS-SQL, Redis
- Cloud: AWS, GCP, IBM Cloud