

Rohan Singh

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

Github: <https://github.com/ygivenx>

Email : singhrohan@outlook.com

Mobile : +1-312-885-0056

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

EXPERIENCE

- **IBM** San Francisco, CA
Senior Data Scientist & Managing Consultant July 2020 - Present
 - **Bias in actuarial models:** Creating a data pipeline for a top automobile insurance client to understand and explain the potential biases in current models in the light of recent changes due to COVID.
 - **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 and explaining the impact of COVID on driving at a county level using ping data from cellphones and other socio-economic and epidemiological variables. Created a dashboard to aggregate and organize all data to show the trends required for decision making by top leadership.
- **IBM** San Francisco, CA
Data Scientist & Senior Developer July 2018 - June 2020
 - **Advanced Automation Platform:** Conceptualized a 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%.
 - **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 legal billing category.
 - **Search Optimization:** Lead the effort to apply machine learning and Lucene to optimize the enterprise search (elasticsearch) of a leading financial services client.
 - **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.
- **Carnegie Mellon University** Pittsburgh, PA
Research/Teaching Assistant - Alessandro Acquisti/Janusz Szczypula May 2017 - May 2018
 - **Behavioral Economics & DBMS:** As a Behavioral Economics RA, developed a data gathering tool to analyze effects of advertisement and their placements in Google search results - organic vs sponsored. As a DBMS TA, conducted labs and graded assignments for Database Management Systems
- **Citadel LLC.** Chicago, IL/ London, GB
Software Engineer Mar 2014 - Apr 2017
 - **Data Quality Monitoring System:** Developed a flexible monitoring system to check quality of external data from vendors using state-of-art statistical data analysis, resulting in 200% decrease in turn-around time.
 - **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.
 - **Future Pricing Model:** Implemented a Future Value model to generate trading signals for soft commodity futures.

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