

Shouvik Sharma

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SUMMARY

Over 3 years of comprehensive work experience in Data Analytsting, Marketing Analytics and Business Intelligence in banking and retail domains. Ability to solve complex business problems using ETL, Data Mining, Machine Learning & Data Warehousing concepts.

LEADERSHIP

Head of the Sports Department (ISA) – NMIMS, Mumbai, India

(June 2016 – Apr 2018)

- Led a team of 6 volunteers. Coordinated various workshops on Sports Event for 50+ students.

EDUCATION

- **MS in Data Science**, Illinois Institute of Technology, **GPA: 3.8**

(Aug 2019 - May 2021)

Related Courses: Machine Learning, Big Data Technologies, Applied Statistics, Statistical Learning, Database Management, Data Preparation and Analysis, Introduction to Algorithm, Data Science Practicum.

- **MS in Statistics**, NMIMS University, **GPA: 3.35**

(Jul 2016 - Apr 2018)

Related Courses: Regression Analysis, Estimation, Testing of Hypothesis, Distribution Theory, Linear Algebra and Numerical Methods

- Certifications: [Snowflake Pro Certification](#), SAS Certified Base Programmer for SAS 9, SAS Certified Predictive Modeler

SKILLS

- **Programming:** SQL, Python, R, SAS, Pyspark, HTML, C#, Excel VBA (Macros), Talend, Agile Methodology, PostgreSQL, MySQL.
- **Big Data Ecosystem:** Spark, Hadoop, MapReduce, Hive, Pig, Kafka, Flume, Hbase, Microsoft Azure, Flink, MS Access, Visio.
- **Cloud Technologies:** AWS (S3, EC2, Lambda, Athena, RDS, Redshift, EMR), NoSQL, Cassandra, MongoDB, Kubernetes, Snowflake, CircleCI, Airflow, Prefect, Salesforce, Airflow.
- **Tools:** Tableau, Power BI, Azure ML, RStudio, Jupyter Notebook, SSRS, SSAS, IBM-Unica, SSIS, MS Office, JIRA, Presto, Terraform
- **Libraries:** Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Keras, Nltk, Gensim, Scipy, Beautiful Soup.
- **Datasets:** HTTP, HTML, XML, JSON, ORC, Parquet
- **NoSQL:** Mongo, Cassandra
- **Shell Scripting:** Linux

WORK EXPERIENCE

Data Analyst at Daten Solutions Inc., Chicago:

(May 2020 - Present)

- Developed and automated **data migration pipeline** from SQL Server to Snowflake using **SnowSQL** and **SnowPipe**, and performed **dimensional modeling** on the migrated data, further created **data dictionary** for the technical audience.
- Automated **ETL** processes using **Prefect** (Python), making it easier to wrangle data sets and reducing time by as much as 40% by performing large-scale data conversions, and transferring BAAN data into standardized formats for integration into **Snowflake**.
- Created **PowerBI** dashboards using the DAX function to explain variation in success **Metrics** and **Time Series Analysis** to higher management.
- Automated reporting process using **Excel VBA (Macros)** and **MySQL** maintaining accuracy and saving ~ **75%** of time, maintained version control Git, Mercurial, SVN.
- Created interactive dashboards and report with **R Shiny** and **R markdown**, which helped the upper management to perform Root Cause Analysis.
- Performed benchmarking of federated queries in **Apache Spark** and compared their performance by running the same queries on **Presto**.

Data Analyst – Practicum Student at Labelmaster, Chicago:

(Aug 2020 – Dec 2020)

- Involved in designing databases, data marts, E-R model for **OLTP** and multi-dimensional model for **OLAP** using **SnowSQL**.
- Optimized complex **SQL** scripts for quality checking of projects and populating output tables for deployment using **Azure Pipelines**.
- Automated hourly status report saving **10 man-hours/week**, thus decreasing response time for fixes and campaign failures.
- Achieved an accuracy of **MAPE 8%** approx. on price forecasting using Deep Learning algorithms like **LSTM** and **RNN**, further created dashboards for presenting the forecasted values to the higher management.
- Implemented quality testing techniques leading to a 5% reduction in software development project cost.

Data Analyst at Cartesian Consulting:

(Apr 2018- Jul 2019)

- Developed pipelines for **ETL** using **Snowflake**, **Python**, **Azure DevOps** and **AWS S3** for acquiring a POC project.
- Extracted data from streaming pipelines using **Flume** and **Kafka** and processed using **Spark** Structured Streaming.
- Predicted sales by **time series forecasting** in **Python** using **neural networks**, **ARIMAX** and **Prophet** for inventory management by eliminating understocking and reducing overstocking by 56%.
- Applied **K-means clustering** in **Python** for **segmentation** of customers, comparing it with **RFM** (Recency, Frequency and Monetary Value) analysis for improved campaign targeting.
- Developed **dimensional data models** and **data warehouse** adhering to integrity and **normalization** rules to support campaign **data mart** and customer one view for marketing campaigns. Wrote **complex SQL** queries (multiple joins, CTE's, subqueries).
- Generated visualizations using **PowerBI** to analyze marketing **metrics** for making recommendations and supply chain analysis.
- Suggested new workflow processes to improve the SDLC process and increased testing turnaround by 15%.

Data Analyst Intern at Greekssoft Technologies Pvt. Ltd.:

(Sept 2017 - Dec 2017)

- Identified probable customer churn using **Classification Models** in **Python** like **Decision Trees** and achieved a recall of 84%.
- Worked with the **Apache Spark** Framework for customer analytics using **Spark SQL** queries on large scale datasets for developing flawless **CRM** (customer relationship management) campaigns and deployed them through multiple channels.
- Built an RNN Neural Network model for Live positional trading using Keras package in python where outputs supplemented Bull Spread Strategy in Options Trading with an accuracy of 71%.

Data Analyst at Tata Capital Financial Services Ltd.:

(Jul 2015- Jul 2016)

- Built **KPIs** and **Regression** models to predict **customer life-time value**, enhance propensity and scoring attributes.
- Accurately extracted insights and created dashboards using **PowerBI**, **Excel VBA (Macros)**, **pivot tables** and **slicers**.
- Formulated ad-hoc reports based on requirements gathered from various stake holders using **JIRA** to provide solutions.
- Created automated reports, graphs, dashboards, and data visualization using business **objects**, **tableau** and **python**.

PROJECTS

Stack Overflow Data Analysis Model (Language/Tools- Python, Jupyter Notebook, Spark, Hive, PySpark, Pig):

- Analyzed insights about questions posted on stack overflow by extracting large data sets using **GCP's big query** data warehouse by leveraging big data technologies such as **Apache Hive**, **Apache Pig**, **HDFS** and **Apache Spark** ([git link](#))

Recommendation System using Yelp (Language/Tools- Python, Jupyter Notebook:

- Built a personalized restaurant recommender web app using the Yelp dataset of restaurants by testing models like **Pure Collaborative**, **Approximate Nearest Neighbour**, **K-NN**, **Naive Bayes** and **Hybrid Matrix** with an **AUC** of 0.81 ([git link](#))

Electronic Vendor Database: (Language/Tools - MySQL, Java 8, HTML, CSS, Bootstrap):

- Constructed the ER Model and translated into Relational Schema implemented as SQL script.