Rahul Nair

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SUMMARY

Over 2 years of comprehensive experience in Data Analysis, Business Intelligence, building Predictive/Forecasting models across various domains. Ability to solve complex business problems using ETL, Data Mining, Machine Learning & Data Warehousing concepts.

EDUCATION

MS in Data Science, Illinois Institute of Technology, GPA: 3.636

(Aug 2019 - May 2021)

Coursework: Machine Learning, Big Data Technologies, Applied Statistics, Statistical Learning, Data Preparation and Analysis, Data Science Practicum

B.Tech in Computer Science, University of Petroleum and Energy Studies, GPA: 3.47

(Aug 2015 – May 2019)

Coursework: Data Structures and Algorithm, Database Management and Warehousing, Information Retrieval, Discrete Mathematics, Computation and Automata

SKILLS

- Programming: SQL, Python, R, JAVA, C, C++, SAS, Pyspark, HTML, Agile Methodology, PostgreSQL, MySQL
- Big Data Ecosystem: Spark, Hadoop, MapReduce, Hive, Pig, Kafka, Flume, Hbase
- Cloud Technologies: AWS (S3, EC2, Lambda, Athena, RDS, Redshift, EMR, Sagemaker), NoSQL, Cassandra, MongoDB, Kubernetes, Google Data Studio, Microsoft Azure, Snowflake, CircleCI, Airflow, Prefect
- **Tools:** Tableau, Power BI, Azure ML, RStudio, Jupyter Notebook, SAS E-Miner, SAS CI, IBM-Unica, SSIS, MS Office, JIRA, Looker, GitHub, DBT, VS Code, DataGrip, Asana, Spyder, PyCharm, Unix
- · Libraries: Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Keras, Nltk, Gensim, Scipy, Beautiful Soup, Tensorflow
- Datasets: HTTP, HTML, XML, JSON

WORK EXPERIENCE

Business Data Analyst at M1 Finance

(Jul 2021 - Present)

- Own and drive strategic analytical projects and insights to influence and support marketing initiatives. Develop and automate Weekly Business Reviews for stakeholders per week. Perform experimentations (A/B testing) on promotional campaigns.
- Collaborate with stakeholders to define and operationalize **KPIs** for short and long-term measurements. Created **Tableau** dashboards to explain variation in success **Metrics** and **Time Series Analysis** to higher management.
- Develop and implement databases, data collection systems on **Redshift** using **DBT** and **version-control (Github)**, and other strategies to optimize statistical efficiency and quality.

Data Analyst (Practicum Student) at Labelmaster

(Jan 2021 – May 2021

- 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 15% approx. on price forecasting using SARIMA, further created web-app for presenting
 the forecasted values to the higher management using HTML and CSS.

Research Assistant at Illinois Institute of Technology

(May 2020 – Oct 2020)

- Formulated ad-hoc reports based on requirements gathered from various stake holders using JIRA to provide solutions.
- 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.
- Developed interactive visualizations for stakeholders to interact with the data the way they please and create policies.

Machine Learning Engineer at Epic Minds IT Pvt. Ltd.

(Jun 2018 - Aug 2018)

- Performed data collection of 18,000 images of diseased crops from various sources in collaboration with the Company Agriculture Research team.
- Built an end-to-end image classification model using **python** to predict the disease which the plant has with an **accuracy of 86%**. Trained **Google Inception V3** model for classification and used **Django** and **Flask** for web interface.
- Developed and automated **data migration pipeline** from SQL Server to Snowflake using **SnowSQL** and **SnowPipe**, and performed **dimensional modelling** on the migrated data, further created **data dictionary** for the technical audience.

PROJECTS

CLUSTERING AND REGRESSION ANALYSIS OF GERRYMANDERING.

• Implemented **weighted k-means** to develop a new redistricting plan for Pennsylvania making sure the population distribution remains proportionate across districts. This new plan **improved the fairness by about 60%.** (link)

YELP RECOMMENDER SYSTEM FOR RESTAURANTS

 Developed an end-to-end recommender system leveraging python to suggest restaurants to users utilizing hybrid matrix factorization method with an accuracy of 97%. Deployed final model as web-app employing Angular JS and Flask. (link)