ROHIT PAUL GERARD NAGARAJAN

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Analytically-minded individual seeking a Data Engineer role with expertise in ETL pipelining, data management, and data integration to build scalable and efficient data architectures with a focus to drive data-driven decision making and optimize business performance.

EDUCATION

Northeastern University Boston, MA

Master of Science in Information Systems | GPA: 3.5/4.0

May 2024

Relevant Coursework: Data Management & Database Design, Designing Advanced Data Architectures for Business Intelligence

Sathvabama Institute of Science and Technology

Chennai, India

Bachelor of Engineering in Electronics and Communication Engineering

July 2015 - July 2019

TECHNICAL SKILLS

Python, SQL, Linux Shell Scripting, PySpark, Pandas and NumPy

Apache Hadoop, Apache Spark and HDFS Big data:

Databases: MySQL, PostgreSQL, Microsoft SQL Server, Azure SQL, Oracle SQL and Hive

ETL: Alteryx Designer, Talend Studio

Data Modeling: ER/Studio Data Architect

AWS S3, AWS Athena, AWS Glue, Microsoft Azure, Google Cloud Platform (Dataproc) Cloud Services:

Version control: Git, GitHub

Business Intelligence: Tableau, Power BI

Software Development lifecycle, Normalization techniques, Agile Methodologies:

INDEPENDENT PROJECT

Boston Crime Analysis | SQL, PySpark, Hadoop, Spark, Hive, GCP Dataproc, AWS: S3 Bucket, Athena, Glue, Power B1

- Setup a Dataproc cluster on Google Cloud, extracted Boston Crimes data from Hadoop and stored it on HDFS in a distributed manner, resulting in a 50% decrease in data processing time
- Extracted, cleansed, transformed, loaded 300,000 + records using PySpark in a PySpark dataframe and stored the resulting data in a CSV file, reducing data redundancy by 15% and improving data accuracy by 90%
- Leveraged **Hive** by creating a database, conducted in-depth **data analysis** through querying, sorting and aggregating the data, revealing key insights that can aid in criminal investigation and prevention
- Automated the entire data processing pipeline using a **Spark-submit** job, saving approximately **2 hours** of manual work and improving overall **efficiency**
- Designed and implemented an end-to-end data pipeline in AWS using S3 for creating data lakes, Athena for data analysis, and Glue ETL jobs for transforming and loading structured data, thereby achieving a reduction in data processing time by 40%
- Created an interactive dashboard and visualizations using Power BI that helps achieve crime visibility in hot and cold areas and identified safe spots from criminal activities for civilian safety

ACADEMIC PROJECT

Disease Diagnosis and Medic Recommendation System | SQL, Python, Pandas, NumPy, Seaborn

Sep 2022 – Dec 2022

- Led a team of 4 and developed a MySQL database that recommends medical professionals for patients based on location, cost, gender, and education
- Gathered structured data from Health websites and Twitter using web-scraping techniques, analyzed and transformed it with Python's Pandas and NumPy libraries achieving 98% data accuracy and data completeness
- Loaded normalized database tables with clean data to eliminate data redundancy, created SQL views resulting in 100% database organization and visualized data using Seaborn library in Python that boosted our project to receive a 195/200 score

PROFESSIONAL EXPERIENCE

Oracle Financial Services Software Ltd.

Nov 2021 - July 2022

Chennai, India

Automation Analyst

Successfully delivered various core-banking projects for clients from diverse regions, showcasing expertise in Automation

- testing, Defect Analysis, Requirements Analysis, and presented RAG status reports to clients with clarity and impact Enhanced team performance by 70% by proposing workflow process changes in Talent connect meetings hosted by senior
- management, conducted regular data analysis on team performance and presented statistics to team lead for further baselining Streamlined payments processing, loans and lease management projects for testing team by developing API Automation scripts

using that resulted in a reduction of manual efforts by a remarkable 80% Tata Consultancy Services Ltd.

Chennai, India

Data Analyst

Sep 2019 – Nov 2021

- Delivered core-banking projects with responsibilities such as Requirements analysis, Defect analysis and reporting, Automation testing, providing month-end statistical data analysis reports using Power BI on key performance metrics of my team
- Reduced unit testing errors by 60% by conducting regular data quality checks in Oracle SQL, monitoring inbound and outbound API calls in Elastic Search Kibana, and reporting data inconsistencies to development team
- Led a team of 4 junior associates and helmed on tasks that involved testing and programming UNIX scripts for migration of historical data from talend server to Amazon S3 bucket through Secure File Transfer Protocol and AutoSvs job scheduling that ultimately resulted in a 90% storage efficiency
- Streamlined project operations on the Funds Transfer module by automating redundant work in Selenium, resulting in a 50% reduction in manual effort and saving 2 hours per day
- Successfully prevented post-production mishaps by reporting and triaging data quality issues from partner applications, resulting in a 40% reduction in incidents reported in JIRA and ServiceNow