**Shalini Srirangam**

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**DATA ANALYST**

* **Highly analytical and process-oriented 10 years** experienced data analyst with in-depth knowledge of database types; research methodologies; and big data capture, curation, manipulation, and visualization. Furnish insights, analytics and business intelligence used to advance opportunity identification, process reengineering and corporate growth.
* Expertise in Data Analysis, Data Validation, Data Cleansing, Data Mapping, Data wrangling and identifying data mismatch.
* Proficient in designing and implementing efficient **data loading** processes using

Tools like SSIS, Informatica, and Apache NiFi.

* Proficient in writing complex SQL queries, stored procedures, normalization, database design, creating indexes, functions, triggers, and sub-queries.
* Skilled in optimizing data Skilled in optimizing data Skilled in optimizing **data loading** performance through parallel processing and incremental loading strategies
* I can fix problems that happen when loading data and work with others to make sure the data is correct and follows the rules.
* Experience in Extract, Transform & Load ETL development using SQL Server Integration Services (SSIS), creating Jobs, Alerts and SSIS Packages.
* Hold conceptual information on data warehousing concepts includes data modeling, Star Schema and Snowflake Schema.
* Integrated multiple custom platforms to affectively alert and report with Splunk.
* Good knowledge in development of Conceptual, Logical and Physical Models for Online transaction Processing OLTP and Online Analytical Processing OLAP.
* Having Perfect Understanding in **Normalization (1NF/2NF/3NF) /De-normalization techniques in relational/dimensional database environments.**
* Full-Fledge Knowledge in developing rich interactive reports and Dashboards using various visualizations like Chart-Box **(Drill Down, Drill up & Cyclic Grouping), Heat Maps, Tree Maps, Scattered Plots, Text Charts, Line charts, Bar charts, Reference Lines, Dual Axis, and geographic visualizations.**
* Have Required knowledge on writing Data Analysis Expressions (DAX), using Time Intelligence functions, Informative functions, Filter functions etc.
* Managed and maintained Splunk environment with high volume ingestion from multiple custom devices and applications.
* The daily ingestion rate 25Tb to 35Tb a day in logs in Splunk (compressed). This equaled about 50Tb to 60Tb in log rate ingestion before compression.
* Necessitate my Information about topic in data preparation and creating relationships between multiple tables in power pivot.
* Created Rich visualized **Pie Line Charts, Tree Map, Tabular and Matrix Reports with Tableau.**
* Created, managed, and scheduled various reports in Power BI service and Published Power BI reports from Power BI desktop to Power BI service.
* Created dashboards using calculated fields, parameters, calculations, groups, sets and hierarchies in Tableau.
* Experience in interacting with end-users to gather reporting requirements and skilled in planning, coordination, and execution of system applications and engineering projects.
* Flexible working in team and as an individual, handled projects from Scratch and live projects as well. Always in sync with the existing members and implemented enhancements as well. Never-ending interest in learning new technologies and Adaptable for any workflow and environment.

**Technical Skills**

Quantitative Methods Data Migration Data Science Research Methods

Data Warehousing Regression Analysis Deep Learning / Computer Vision

Advanced Data Mining Data Visualization Statistical Computing Methods

Business Intelligence Data Analytics Natural Language Processing

Machine Learning Neural Networks Data Marts

**Tools Knowledge**

Excel, Tableau, Python, SQL, AWS, SQL Server 2016, ETL, AS/400, Jira, Quip

**Domain Experience**

Investment & Retail Banking, Asset & Wealth Management, Finance, Capital Markets, Insurance, Healthcare, Automotive

**Work Experience**

**Client : HARMAN,INC Mar 2022 – PRESENT**

**Project**  :**Data Analyst/Data Management vehicle fleet**

**Skills/Domain** : ETL, Tableau, Informatica, Python, SQL

**Description:** HARMAN, Inc is an American [audio electronics](https://en.wikipedia.org/wiki/Audio_electronics) company owned by Samsung Electronics. It focuses Automotive Solution, Cloud, Lifestyle Audio, Mobile, Analytics Capabilities, Design, and Software Services.

**Role**

* Enthusiastic about automotive electronics and wants to define the future in-cabin user experience.
* Collaborating with global automotive, AI/ML, and MLOps expert teams in order to implement a vehicle software update experience that is compelling for **OEM** customers and end-consumers.
* Develop, manage, and maintain **ETL** (extraction, transformation, loading) solutions for **OTA** (Over-the-Air update) products.
* Owning the full data pipeline, provision team with large scale vehicle fleet and contextual data in all phases of the product lifecycle.
* Used to Maintain Splunk Enterprise Security Application.
* Build of Hadoop cluster for Splunk and ELK data archiving
* Design and Implement distributed Splunk monitoring and data mining solution to support dev, DR, and Prod environments.
* Collaborate with various internal teams to improve the security of connected vehicles
* Work with firmware engineers to add, and modify scripts (e.g., software agents) on TCUs or ECUs, to enable anomaly detection and cyber security from TCU / ECU.
* Use ETL, scripts, or tools to extract and parse the data from various sources (local files, logs, etc.) to Json or column-based data, and save the processed data into **AWS** (S3, Athena, etc.) or Data Lake (Databricks Lakehouse, etc.) or open-source databases (**MySQL, MongoDB**, etc.).
* Ensure the data quality by using data engineering methods to deal with missing data and bad data from vehicles (ECUs, OTA, and more) and the **cloud**.
* Help feature engineering, data labeling, and other tasks, and improve ML models, by collecting feedback, retraining the models, and maintaining the data end-to-end pipelines.
* Develop and optimize **ETL solutions** for multiple data sources (e.g. vehicle, user, and context information)
* Work together with automotive domain subject matter experts, AI architects, and data scientists to develop data architectures and pipelines
* Identify and integrate data sources including synthetic data and manage data collection
* Manage large scale data sets incl. labelling, cataloging, and versioning
* Analyze **datasets, create reports and visualizations**

**Accomplishments**

* reduction in costs, **37%** increase in revenues resulting in annual profits.
* Designed & built statistical analysis models in Python on large data sets that helped increase sales (up to **12%** per product) and lowered contract cancellation rate

**Client: The Vanguard Group, Inc April 2021 – Feb 2022**

**Project**  : **Data Analyst/Data Conversion**

**Skills/Domain** : SQL, PostgreSQL, Oracle, Excel, Power BI, Python,

**Description:** The Vanguard group Inc, is an investment advisor, which involves in providing mutual funds, Exchange Trade Funds also offers brokerage services, financial planning, asset management. It is owned by funds managed by the company and therefore by its customers.

**Role**

* Developed a fully automated continuous integration system using Git Gerrit, Jenkins MySQL and custom tools developed in Python and Bash Managed, developed, and designed a dashboard control panel for customers and Administrators using **Django, Oracle DB** PostgreSQL, and **VMWare** API calls
* Written Cloud formation templates and deployed **AWS** resourcing.
* Communicating insights and trends to stakeholders
* Root cause analysis and sizing
* Proficient in data loading techniques using tools such as SQL Server Integration Services (SSIS) and Apache NiFi.
* Experience in integrating diverse data sources into target systems for enhanced accuracy and reliability.
* Skilled in optimizing data Skilled in optimizing data Skilled in optimizing data loading processes to ensure efficiency and performance.
* Design and Implement distributed Splunk monitoring and data mining solution to support dev, STG, and Prod environments
* Migrate from Splunk 4.x to Splunk 5.x. Deployed and maintained app-dynamics in Greenfield development environment.
* Build of Hadoop cluster for Splunk and ELK data archiving
* Actively participating in problem solving sessions
* Familiarity with data validation and cleansing techniques to maintain data integrity during loading.
* Build and maintain **SQL** scripts, indexes, and complex queries for data analysis and extraction.
* Developed **visual reports**, dashboards, Cubes and KPI scorecards using Tableau, publishing and

scheduling Tableau reports as per the business requirements.

* Implemented row level security on data and understand application security layer

models in Tableau.

* Executing on strategy, documenting findings, and presenting results to stakeholders
* Implemented data governance using Excel and Collibra.
* Developed tabular and multidimensional models that are compatible with warehouse standards.
* Responsible for understanding the business requirements and develop data models accordingly by developing prototype, designing, and do requirement analysis.
* Gained Knowledge on Deploying apps using AWS Cloud Formation
* Experience in using various version control systems like **Git CVS GitHub**. Heroku and Amazon EC2.
* Created Git repository and added the project to GitHub
* Part of team implementing REST APIs in Python using micro-framework like Flask with SQLAlchemy in the backend for management of data center resources on which OpenStack would be deployed.
* Developed programs to automate the testing of RAID controller firmware and utilities using Python. Bash script and Windows command line. Autoit. AutoHotkey and Java Script
* Used Pandas library for statistical Analysis. Worked on Python Open stack API's.
* Developed internal auxiliary web apps using Python Flask framework with CSS/HTML framework.
* Created entire application using **Python, Django, MySQL**, and Linux.
* Involved in Web-services backend development using **Python** (CherryPy, **Django**. SQLAlchemy).
* Recommended build management, defect management development process flow. Administrator of SVN.
* inv Manage stakeholders’ expectations for business, IT development and quality assistance throughout the solution delivery phase.
* Identified and extracted relevant data from large data sets using **data reduction and mining** techniques
* Involved in data migration of various data sources from several platforms to Oracle.
* Worked with Data Warehouse in the development and execution of data conversion, data cleaning and standardization strategies and plans as several small tables are combined into one single data repository system **MDM** (Master Data Management).
* Reviewed basic SQL queries and edited inner**, left and right joins in Tableau Desktop** by connecting live/dynamic and static datasets.
* Decomposition and documentation of business lineage and technical lineage.
* Participated in data governance working group sessions to create data governance policies.
* Analyze data lineage process to identify vulnerable data points, control gaps, data quality issues, and overall lack of data governance.
* Used Microsoft Excel, collect and analyze data in various measurements, created interactive dashboards with diverse views and charts. Dashboards including features such as filters, complicated functions, and parameters.
* involved in editing the existing ANT/MAVEN files in case of errors or changes in the project requirements

**Accomplishments**

* Developed and maintained various financial models, which is used by finance team during the planning process ensuring data accuracy and integrity.
* Created management dashboard/metrics in order to track and evaluate operational performance.

**Client – Optum Health**  **(Nov 2016 – Jan2021)**

**Project**  : **Data Specialist,**

**Skills/Domain** : Master Data Management (MDM), Reference Data, SQL, Tableau

**Description:** Optum, Inc. is an American [pharmacy benefit manager](https://en.wikipedia.org/wiki/Pharmacy_benefit_manager) and [health care provider](https://en.wikipedia.org/wiki/Health_care_provider). It has been a [subsidiary](https://en.wikipedia.org/wiki/Subsidiary) of [UnitedHealth Group](https://en.wikipedia.org/wiki/UnitedHealth_Group) since 2011.

**Role**

* Correctly **mapping identifiers** (CUSIP, SEDOL, ISIN, etc.) across varied feeds
* Analyzing massive, complex data sets
* Build accurate predictive models driving decision making
* Data visualization using **Tableau / Python** - Matplotlib and Seaborn libraries
* Generate insights related to positions consolidation of securities & hedging suggestions in wealth management, using cluster analysis in dendrograms & plotting heat maps
* Communicate insights to make data analysis actionable and understandable by business partners
* Integration of upstream data source feeds and distribution to downstream application targets for various asset classes
* Create functional requirements documentation and data flow diagrams to assist in the analysis of a process
* Performed Risk Analysis of the requirements to identify the project critical success factors and prioritize functional requirement.
* Performed Extracting, and exporting of the data in various database applications
* Created the required data quality by ensuring invalid, inconsistent, or missing
* Database table review and data mapping for large scale data conversion project Oracle database.
* Managed functional requirements for interfaces and conversions between other legacy systems to Teradata, **Master Data Management** (MDM), Enhancements, Workflows and Reports for MDM.
* Wrote **SQL queries** for each Test case and executed in SQL Plus to validate the data between Enterprise Data Warehousing and Data Mart Staging Tables.
* Collected business requirements to set rules for proper data transfer from Data Source to Data Target in **Data Mapping.**
* Created Data Flow Diagrams and Process Flow Diagrams for various load components like **FTP load, SQL loader load, ETL process** and various other processes that required transformation

**Accomplishments**

* Ensure metadata, reference documentation, and data flows are accurate and up to date
* Central data repository for identifiers, ratings, industrial classifications, CRM data, SSIs, client documentation and agreements

**Client-: Chain Sys India Pvt Ltd June 2014 – Oct 2016**

**Project**  :**Data Analyst,**

**Skills/Domain** : Tableau Desktop/Server, Python, MS SQL Server, Erwin

**Description:** Chain-sys (India) Private Limited is a Non-Govt company, incorporated on 20 Jul, 2000. It's a private unlisted company and is classified as company limited by shares. Company's authorized capital stands at Rs 150.0 lakhs and has 78.69587% paid-up capital which is Rs 118.04 lakhs.

**Role**

* Worked with end users to gain an understanding of information and core data concepts behind their business.
* Handled large and complex sets **XML, JSON** and csv files from various sources and databases.
* Involved with Data Analysis primarily Identifying Data Sets, Source Data, Source Metadata, Data Definitions, and Data Formats.
* Prepared **ETL** technical Mapping Documents along with test cases for each Mapping for future developments to maintain **SDLC** and Migration process.
* Worked on **Data Profiling, Data Cleansing, Data Migration, Data Mapping** and actively helped **ETL** developers to Compare data with original source documents and validate Data accuracy.
* Worked on cleaning, exploring, and manipulating source data and transform it to the target system using Python and tools such as Pandas, NumPy, Matplotlib.
* Use of structured query language (**SQL**) to query, analyze and integrate data.
* Expertise in writing advanced **SQL** queries to retrieve data basing on the requirements and generate data reports.
* Analyze the business requirements and designed Conceptual and Logical Data models using Erwin and generated database schemas and **DDL** (Data Definition Language) by using Forward and Reverse Engineering.
* Developed and reviewed **SQL** queries with use of joins clauses (inner, left, right) in Tableau Desktop to validate static and dynamic data for Data validation.
* Created **Tableau** scorecards, dashboards, Heat maps using show me functionality.
* Implemented Row level security for Dashboards by creating user filters in Tableau and published dashboards in live connection.
* Created Hierarchies, which helps the report users to drill down to lower levels.
* Published interactive data visualizations, dashboards, reports from **Tableau Desktop** to **Tableau servers.**
* Effectively used data blending feature in **Tableau** to connect different databases like **Oracle, MS SQL Server.**
* Created and managed schedules of the Tableau Extract setting the priority of the extracts etc.

**Accomplishments**

* Produced detailed monthly, quarterly, and yearly performance and attribution reports for 40+ accounts
* Support project lifecycle for the deployment of data warehouse for transactions and holdings data resulting in improved reconciliation and near real-time share availability

**EDUCATION**

* B. Com – Kakatiya University – 2014.