**NITISH SNSK  
 SENIOR DATA ANALYST  
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**PROFESSIONAL SUMMARY:**

* Around **11+** years of experience as a **Data Analyst** with expertise in analysing and supporting business solutions and operations and working experience in requirement gathering, reporting, documentation, process mapping, scheduling, planning, and data analysis.
* Experienced in developing **Power BI** applications that streamline dashboard management and enhance user adoption across departments. Led **SQL Server-to-Azure Data Lake Storage (ADLS)** migrations, optimizing data transformation and ensuring seamless cloud adoption.
* Developed and executed **data migration strategies** using **Informatica, Talend, and Apache NiFi** for seamless transitions
* Designed and implemented **data migration plans**, ensuring efficient execution with tools like **AWS Glue and Apache Airflow**
* Created **migration and reconciliation scripts** using **SQL, Python, and Bash** to validate data integrity post-migration.
* Developed **Power BI, SSRS, and Tableau dashboards**, improving data accessibility and decision-making efficiency for stakeholders.
* **Developed predictive models** leveraging **SQL and Python/R** to uncover insights from **UMP and CRM data**, identifying trends in client investments and advisor efficiency.
* Strong understanding of **Telecom OSS/BSS architecture**, including **order management, billing, CRM, provisioning, and customer support systems**.
* **Proficient in Data Governance, Data Warehousing, and Data Modeling**, ensuring data quality, security, and compliance
* Utilized **Data Conversion Tools** such as **Alteryx, Pentaho, and Microsoft SSIS** to migrate data accurately
* Created **migration and reconciliation scripts** using **SQL, Python, and Bash** to validate data integrity post-migration
* Experienced in **Agile methodologies**, including **Scrum** and **Kanban**, facilitating iterative development processes that promote collaboration and rapid delivery of high-quality software solutions.
* Proficient in **SQL** and **PL/SQL** code tuning to optimize database performance and significantly improve application response times.
* Expertise in **cleaning and migrating data** in **CSV, Excel, JSON, and XML formats** using **Pandas, OpenRefine, and Excel VBA**.
* Integrated multiple **sales channels (Retail, Web, Mobile, IVR) into a unified Omni-Channel platform**, ensuring seamless customer experience.
* Hands on experience in leveraging **AWS services**, including **AWS S3, EC2, RDS, AWS Redshift, Lambda, Glue, Cloud** **Formation, Cloud Trail** and **AWS Cloud Watch.**
* Proficient in utilizing advanced **Tableau** features for user-driven analysis and scenario modelling, improving decision-making capabilities.
* Developed and fine-tuned **LLMs (GPT, BERT, Llama, T5) to generate business insights, automate customer service responses, and** enhance search relevance in **eCommerce**.
* Proficient in leveraging **Python** for data analysis, employing libraries such as **Pandas** and **NumPy** to manipulate large datasets, automate data extraction, and perform complex calculations for actionable insights.
* Optimized **telecom product catalog management systems**, enabling **dynamic pricing, bundling, and cross-selling strategies**.
* Proficient in using **Agile project management** tools like **Jira** and **Trello** to track progress, manage backlogs, and ensure transparency in project workflows.
* Skilled in integrating **Visio** with other **Microsoft Office** applications to streamline documentation processes, enhancing collaboration and communication within project teams.
* Skilled in creating comprehensive **UML diagrams**, including use case, class, sequence, and activity diagrams, to effectively model software systems and communicate design specifications to stakeholders.
* Familiar with implementing user-friendly interfaces in **Vision**, enhancing the accessibility of analytical tools for business users across the organization.
* Extensive experience in **Azure Data Lake**, **Data Factory,** **Azure SQL Database, Databricks, Azure Synapse Analytics, Key Vault** and **Azure Logic Apps.**
* Adept at integrating **NoSQL** solutions with existing data infrastructures, facilitating seamless data flows and enhancing overall data accessibility.
* Proficient in creating complex formulas and automating repetitive tasks through **Excel macros**, enhancing efficiency and accuracy in data management.

**TECHNICAL SKILLS:**

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| **Programming Languages** | Python, SQL, PL/SQL, DAX |
| **Data Visualization** | Power BI, SAP Business Objects Web Intelligence, Tableau, Excel, Matplotlib, Seaborne, SSRS |
| **Data Integration/ETL** | Azure Data Factory, Azure Databricks, AWS Glue, SAP Data Services, Python (Pandas, NumPy), NoSQL databases |
| **Database Technologies** | SQL, PL/SQL, NoSQL, SQL Database, SAP BW, AWS RDS, Redshift, SQL Server |
| **Clouds** | AWS, Azure |
| **Agile Methodologies** | Scrum, Kanban, Jira, Trello, sprint planning, daily stand-ups, retrospectives |
| **Data Modelling** | UML (Use case, class, sequence, activity diagrams), NoSQL data models, entity-relationship diagrams |
| **Reporting and Analysis** | Ad-hoc reporting, KPI development, dashboard management, metrics creation, interactive dashboards |
| **Project Management** | Jira filters, project timelines, Gantt charts, change request management, backlog tracking |
| **Documentation Tools** | MS Visio, Confluence, UML tools |

**PROFESSIONAL EXPERIENCE:**

**Client: Roche Pharmaceuticals, Santa Clara, CA May 2023 – Present**

**Role: Sr.Data Analyst  
Responsibilities:**

* Expertise in debugging and identifying **gaps in data elements** using **SQL Profiler, DataGrip, and AWS CloudWatch Logs**
* Strong experience in using **REST APIs and Web Services** for data migration with tools like **Postman, Swagger, and GraphQL**
* Worked with **internal and external stakeholders** to understand migration requirements and provide feasibility analysis using **JIRA and Confluence**.
* Processed and interpreted **client, advisor, and CRM data** to generate actionable insights.
* Developed interactive **dashboards and reports using Tableau and Power BI** to visualize advisor performance, client behavior, and **CRM engagement**.
* Provided data-backed insights to optimize performance and enhance strategic decision-making in **wealth management and advisory services**.
* Managed **Azure Data Lake** and **Azure SQL Database** environments, ensuring optimal data storage, organization, and accessibility for analytics purposes while maintaining data integrity and security.
* Spearheaded the **migration of SQL Server databases to Azure Data Lake (ADLS)**, documenting schemas, data structures, and dependencies to streamline the transition.
* Developed **complex T-SQL scripts, stored procedures, and indexing strategies**, reduce query processing time by 35% and ensuring high-performance analytics.
* Created **Power BI dashboards** to monitor migration progress, identify data discrepancies, and validate data integrity, reducing post-migration errors by 90%.
* Conducted **data quality assessments and anomaly detection**, leading to proactive data cleansing and improved reliability in cloud-based storage.
* Designed and implemented data pipelines using **Azure Data Factory** to facilitate the extraction, transformation, and loading **(ETL)** of data from various sources into **Azure Data Lake** and **SQL Database.**
* Utilized **Azure Synapse Analytics** to perform complex data queries and analytics, enabling data-driven decision-making through insightful reports and dashboards.
* Participated in daily stand-up meetings to communicate progress, identify blockers, and align with team objectives in an **agile** environment.
* Implemented data visualization solutions using **Python libraries** such as **Matplotlib** and **Seaborne** to create insightful graphs and charts for stakeholder presentations.
* Developed **Power BI apps** to package and distribute related dashboards and reports, streamlining content management and improving user adoption across departments.
* Utilized **SAP Business Objects** **Web Intelligence** to create ad-hoc reports and perform drill-down analysis, empowering business users to explore data independently.
* Developed and maintained **Power BI** data flows to centralize data preparation logic, ensuring consistency across multiple reports.
* Integrated various data sources into **Vision** to create comprehensive reports, facilitating a holistic view of business metrics and key performance indicators (KPIs).
* Implemented **agile** best practices and tools, such as **Kanban boards** and burn down charts, to track project progress and enhance transparency across teams.
* Created **object diagrams** in **UML** to represent the relationships between objects in the system, aiding in the understanding of system interactions.
* Developed multi-sheet **Excel** workbooks for comprehensive project tracking, facilitating collaboration and transparency among team members.
* Assisted in integrating **NoSQL** databases with existing data warehousing solutions, promoting a unified approach to data management and analysis.
* Designed custom **Python scripts** for **web scraping** and data extraction from various sources, leading to the acquisition of critical data for business insights.
* Analysed user access patterns and adjusted permissions in **Vision** to enhance security and optimize user experience based on individual roles.
* Provided **SQL** and **PL/SQL** code tuning to improve database response time and performance for several applications.
* Adhered to **Scrum principles** of transparency, inspection, and adaptation to continuously improve analytics processes and deliverables.
* Collaborated with stakeholders using **Jira's** commenting and attachment features to streamline communication and document project requirements.
* Integrated **Confluence** with other tools like **Jira** to create a seamless documentation and project management ecosystem for analytics initiatives.
* Conducted root cause analysis of performance issues in **NoSQL** databases, implementing corrective measures to enhance system reliability.
* Contributed to the refinement of **Scrum** processes, suggesting improvements to enhance the efficiency of analytics project delivery.
* Utilized **UML tools** to create visual representations of system interactions and workflows, aiding in the identification of potential design flaws and optimization opportunities.
* Analysed existing processes and developed improvement diagrams in **Visio** to identify streamline operations.

**Environment:** Azure Data Lake, SQL Database, Synapse Analytics, Data Factory, SAP Cloud Platform Integration, Agile, Python (Matplotlib, Seaborne), Power BI, SAP Business Objects Web Intelligence, UML, Excel, NoSQL databases, Vision, SQL, PL/SQL, Scrum, Jira, Confluence, Visio.

**Client:** **University of Pittsburgh Medical Center, Pittsburgh Nov 2020 – April 2023**

**Role: Data Analyst  
Responsibilities:**

* Designed and implemented **AWS**-based data pipelines, utilizing services such as **AWS Glue, AWS Lambda**, and **AWS** **S3**, to streamline data ingestion, processing, and storage workflows.
* Applied **NoSQL** database solutions to address specific data modeling and scalability challenges, enhancing overall system efficiency.
* Managed **data migration projects** involving SQL Server, AWS, and NoSQL, ensuring smooth transitions and minimal business disruption.
* Successfully migrated **terabytes of structured and unstructured data** from **on-premises to cloud platforms (AWS, GCP, Azure)** using best practices
* Developed **SSRS reports and Tableau dashboards**, providing real-time insights into migration status and data completeness.
* Performed **ETL and transformation tasks** using AWS Glue and Python, enhancing data standardization and storage optimization in cloud platforms.
* Conducted **data integrity checks** post-migration, ensuring accurate and complete data transfer from on-premises to cloud.
* Implemented **performance tuning techniques** on SQL queries and stored procedures, improving system efficiency by 45%.
* Utilized **AWS Cloud Formation** for infrastructure as **code (IaC)** to automate **AWS EC2** instance provisioning and configuration.
* Managed the data lifecycle within **SAP BW,** including data extraction, transformation, and loading **(ETL),** ensuring data quality and consistency across reporting platforms.
* Developed metrics to measure the effectiveness of **Vision** dashboards, using insights to iterate and enhance dashboard functionalities.
* Implemented data models in **Power BI** using **DAX (Data Analysis Expressions)** to enhance analytical capabilities, enabling advanced calculations and dynamic reporting.
* Utilized burn down charts and other **Scrum** metrics to track progress and identify potential risks to sprint goals.
* Developed custom metrics and calculations in **Vision**, empowering users with tailored insights that directly support strategic initiatives and operational goals.
* Developed and maintained **SAP Business Objects** reports and dashboards, providing real-time visibility into key performance indicators (KPIs) for executive decision-making.
* Optimized **Power BI** report performance through efficient data modelling, query folding, and incremental refresh techniques.
* Integrated **UML diagrams** into **agile** workflows, ensuring that models were continuously updated to reflect changes in project scope and requirements.
* Used **MS Visio** to create user journey maps and service blueprints, identifying pain points and opportunities for process improvement.
* Developed and modified several **PL/SQL** packages, procedures, functions, views and triggers using **PL/SQL.**
* Developed and maintained data processing scripts using **Python libraries** such as **Pandas** and **NumPy** to clean, analyse, and visualize large datasets, ensuring data integrity and accuracy in reporting.
* Utilized **agile** methodologies to break down complex analytics projects into manageable tasks, ensuring timely delivery of incremental value.
* Created and managed **Jira** epics to organize and track progress on large-scale analytics initiatives spanning multiple sprints.
* Developed **UML sequence diagrams** to represent interactions between system components, aiding in the identification of system behaviour and requirements.
* Maintained an organized library of **MS Visio** templates and diagrams, promoting consistency and efficiency in documentation efforts.
* Implemented **Excel** templates for standardized reporting, improving consistency and reducing preparation time across departments.
* Optimized **Python code** for performance and scalability, reducing processing time for large datasets and enhancing overall application efficiency.
* Developed and optimized **NoSQL** queries to support analytical processes, ensuring rapid access to data for reporting and decision-making activities.
* Created **Confluence** spaces to organize and share business intelligence reports, ensuring easy access for stakeholders across the organization.
* Utilized **Jira Service Management** to handle and prioritize analytics requests from various business units, improving resource allocation.

**Environment:** AWS Glue, Lambda, S3, Cloud Formation, EC2, NoSQL, ETL, SAP BW, Power BI, DAX, Scrum, Vision, SAP Business Objects, UML diagrams, Agile**,** PL/SQL, Python, Pandas, NumPy, Jira, UML, MS Visio, Excel, Confluence, Jira Service Management.

**Client: American Express, Phoenix, AZ Aug 2018 – Oct 2020**

**Role: Data Analyst  
Responsibilities:**

* Developed robust **ETL** pipelines using **Azure Databricks** to ingest, transform, and load data from diverse sources into **Azure Data Lakes** and **Azure** **Data Warehouses.**
* Utilized **Python's** data visualization libraries to create dashboards and reports that provided actionable insights to stakeholders. Deployed reports in **MS SQL** Server using **Microsoft SQL** Server Reporting Services**.**
* Implemented **SAP Data Services** to integrate data from multiple sources, creating a unified view of business operations and enabling more comprehensive analytics.
* Designed and deployed **data pipelines using Azure Databricks and Data Factory**, significantly improving data ingestion and transformation efficiency.
* Created **interactive Tableau reports** tracking data migration progress, reducing data validation time by 60%.
* Developed **complex SQL queries** for extracting and transforming large datasets, ensuring accuracy and consistency across systems.
* Automated **data validation and reporting workflows**, improving efficiency in migration audits and compliance tracking.
* Established **agile** metrics to track team performance and project progress, utilizing data to drive continuous improvement initiatives.
* Created and executed **unit tests** for **Python** **scripts** to ensure code reliability and functionality, enhancing overall data quality and performance.
* Integrated **Azure Data Lake** with **Azure Data Factory** to store, manage, and analyse large datasets, enabling advanced data exploration and business insights for decision-making.
* Developed custom alerts and notifications in **Vision** to ensure stakeholders are promptly informed of significant changes in business metrics.
* Created data models for **NoSQL** databases to effectively represent complex relationships and support diverse analytical needs.
* Created various **UML diagrams**, including use case, class, sequence, and activity diagrams, to model and document system requirements and architecture effectively.
* Utilized **MS Visio** to create entity-relationship diagrams, facilitating database design and optimization efforts.
* Developed custom **SQL** queries and stored procedures to optimize data retrieval for **Tableau**, significantly improving dashboard load times for complex reports.
* Utilized advanced **Tableau** features such as parameters, sets, and calculated fields to enable user-driven analysis and scenario modelling.
* Created interactive dashboards in **Excel** using slicers and timelines, allowing users to filter data dynamically and gain deeper insights.
* Supported the management of change requests and scope adjustments within **agile projects**, ensuring that all changes were documented and communicated effectively.
* Developed custom applications utilizing **NoSQL** databases to address specific business needs, enhancing operational efficiency and data access.
* Participated in **Scrum** ceremonies, including sprint planning, daily stand-ups, sprint reviews, and retrospectives.
* Created and maintained **Jira** filters to quickly access and report on different categories of analytics projects and tasks.
* Developed detailed system integration diagrams using **MS Visio** to illustrate the relationships and dependencies between various system components.
* Utilized **UML** to create state diagrams that illustrated the behaviour of systems under various conditions, aiding in requirement validation.

**Environment:** Azure Databricks, Data Lake, Data Warehouse, Data Factory Python, MS SQL Server, Microsoft SQL, SSRS, SAP Data Services, Agile, Unit testing, NoSQL databases, UML, MS Visio, SQL, Tableau, Excel, Jira.

**Client:** **Toyota Financial Services, Plano Texas May 2016 – July 2018**

**Role: Hadoop Developer  
Responsibilities:**

* Developed ETL jobs using Spark -Scala to migrate data from Oracle to new MySQL tables.
* Rigorously used Spark -Scala (RRD’s, Data frames, Spark SQL) and Spark - Cassandra -Connector API's for various tasks (Data migration, Business report generation etc.)
* Developed Spark Streaming application for real time sales
* Analysed the source data and handled efficiently by modifying the data types. Used excel sheet, flat files, CSV files to generated PowerBI ad-hoc reports
* Handled importing of data from various data sources, performed transformations using Hive, MapReduce, loaded data into HDFS.
* Analysed the SQL scripts and designed the solution to implement using PySpark
* Extracted the data from MySQL into HDFS using Sqoop and set up and benchmarked Hadoop/HBase clusters for internal use
* Used Impala to read, write and query the Hadoop data in HBase
* Extensively worked on creating combiners, Partitioning, distributed cache to improve the performance of MapReduce jobs.

**Environment:** AWS EC2, Cloud Watch, S3, EMR, Excel, SQL, Python, Hadoop, Hive, Pig, Tableau, R, SQL, T-SQL, Excel macros, VBA, MySQL, Hadoop, Hive, spark, PySpark, Sqoop, Spark SQL, Cassandra, YAML, ETL, Impala, HBase.

**Client: TMW Systems, Cleveland Ohio Feb 2014 – April 2016**

**Role: Data Analyst  
Responsibilities:**

* Monitored **AWS EC2** instance performance using **AWS Cloud Watch** and custom scripts to ensure optimal operation and identify performance bottlenecks.
* Utilized advanced **Excel** formatting features to enhance the visual appeal and readability of complex data reports.
* Conducted data analysis on large datasets stored in **AWS S3**, employing **SQL** and **Python scripts** on **AWS EMR** to generate actionable insights and support business decision-making.
* Designed and implemented **ETL** processes using **Hadoop ecosystem** tools such as **Hive**, **Pig** for large-scale data processing and analysis.
* Created interactive **Tableau** dashboards to visualize and analyse business performance metrics, facilitating data-driven decision-making across departments.
* Developed data processing scripts using **Python** to automate data collection, transformation, and analysis, significantly improving efficiency and accuracy in reporting.
* Utilized **R** packages such as **dplyr** and **tidyr** for data manipulation and transformation to streamline analysis processes.
* Developed and maintained **SAS scripts** for data extraction, transformation, and loading **(ETL)** processes, ensuring efficient data workflows.
* Optimized complex **SQL** and **T-SQL** queries for data extraction, transformation, and loading **(ETL)** processes to support data analysis and reporting.
* Automated repetitive tasks with **Excel** **macros** and **VBA** to improve workflow efficiency and accuracy.
* Implemented triggers and stored procedures in **MySQL** to automate routine data management tasks, ensuring data integrity.

**Environment:** AWS EC2, Cloud Watch, S3, EMR, Excel, SQL, Python, Hadoop, Hive, Pig, Tableau, R, dplyr, tidyr, SAS, SQL, T-SQL, Excel macros, VBA, MySQL.

**EDUCATION:** Jawaharlal Nehru Technology University, Hyderabad, TS, India