ADITYA NITTALA

Data Engineer

Mail: aditnit208@gmail.com

Phone: +1 972-665-7318

PROFESSIONAL SUMMARY

 9+ years experienced professional with a proven track record of successf Engineering and its associated technologies, such as Azure Data Factor Apps, Azure Function Apps, Snowflake, and Azure DevOps services

Strong development proficiency in building scalable and efficient ETL (Ex pipelines using PySpark and Spark SQL within Azure Databricks.

Competent in developing high-performance data pipelines using Scala, of transforming complex data into valuable insights.

Skilled in utilizing Azure Logic App Integration tool to seamlessly integration streamline data workflows.

Strong understanding of data governance principles and best practices, e

compliance. Strong implementation experience in fully implementing Azure Functions

Service Bus queries to seamlessly integrate a large-scale ERP system for Hands-On experience in creating and managing Azure DevOps tools, er integration and deployment (CI/CD) pipelines for streamlined application

Developed robust data ingestion workflows, enabling the seamless extraction and transforming it into Avro, Parquet, Sequence, JSON, and ORC file for

rapid retrieval. Extensive experience in Hadoop ecosystem technologies, including HDF

Proficient in developing large-scale data pipelines using Spark and Hive, query tuning, bucketing, and partitioning techniques.

Hands-on expertise in importing and exporting data between HDFS and F Sqoop.

Leveraged the powerful capabilities of Apache Oozie for efficient schedu management of Hadoop jobs.

Extensive hands-on experience in tuning Spark jobs and ETL workflows f efficiency.

Strong background in data ingestion, data modelling, and encryption tech data processing

Proficiency In Apache Kafka-driven real-time streaming analytics in Spa processing and analysis of high-velocity streaming data, while effectively data pipeline.

Optimized Spark jobs and workflows through fine-tuning of Spark configu and memory allocation, resulting in enhanced performance and resource

Demonstrated expertise in managing Snowflake's unique features such a Travel, and Data Sharing, for efficient data management.

Successfully integrated Snowflake with Azure Data Factory to orchest significantly optimizing data migration from diverse sources into Azure-ba

Extensive experience in the development, maintenance, and implemental Warehouses (EDW), Data Marts, Operational Data Stores (ODS), and Da Star schema and Snowflake schema designs.

Commented [AN1]: Add 2 more Kafka Points. Add more domain knowledge

EDUCATION

Master of Science in Data Science.

TECHNICAL SKILLS

Azure Services Aditya Nittala

BUSINESS ANALYST

Profile

I am a driven and diligent professional with exceptional communication skills that I have used to translate business requirements efficiently into finished solutions. I am capable of analyzing data to generate reports and dashboards highlighting areas of focus for future growth. Looking for a role that engages with businesses to develop robust and dynamic solutions.

Employment History

IT Systems Analyst, Atos India Pvt. Ltd.

JANUARY 2016 — DECEMBER 2020

<u>Engage</u> with Pharma Industry clients to transition databases and onpremises applications to Atos cloud solutions.

Gathered and analyzed customer requirements for Cloud Migration and Application Support. Drafted SOP documents working closely with Security, Cloud, and Database Administrator teams

<u>Developed Analytics application</u> in VMware to aggregate customer and team performance data to generate and display reports of Employee response time

<u>Presented client with Incident Management system Proof of Concept</u>

 $\underline{\text{tailored to cloud migration and future application maintenance.}}$

Compiled all available training documents and customer feedback as training manuals.

Data Engineer, Hexaware Technologies

JUNE 2022 — AUGUST 2022

<u>Demonstrated Batch Data storage and processing for large Datasets containing mixed, unclean data using AWS S3 as a warehouse.</u>

Engineered ETL workflow for Kaggle Dataset stored in S3 bucket using AWS Glue and triggers/events accessing data for Analysis or Visualization

<u>Upgraded manual workflow to automated querying from Kaggle Data source to Target S3 using AWS CLI and Kaggle API</u>

Education

Master of Science in Data Science, Stevens Institute of Technology

JANUARY 2021 — DECEMBER 2022

B.Tech in Electronics and Communications Engineering, National Institute of Technology Trichy

Azure data Factory, Azure Data Bricks, Logic Apps, Functional App, Snowflake, Azure DevOps

Details

Links

Linked

Skills

AWS Service

MySQL

Python Scriptin

Amazon AWS

<u> NumPy, Pandas, Matplotlib</u>

Tableau Dashboards

Use Cases

Jupyter Notebook, PyCharm

SDLC, Waterfall

JULY 2012 - MAY 2016

Courses

AWS Cloud Certified Practitioner Training, Udemy

Big Data Technologies	MapReduce, Hive, Teg, Python, PySpark, Scala, Kafka, Spark streaming, Oozie, Sqoop, Zookeeper
Hadoop Distribution	Cloudera, Horton-Works
Languages	Java, SQL, PL/SQL, Python, HiveQL, Scala.
Web Technologies	HTML, CSS, JavaSoript, XML, JSP, Restful, SCAP
Operating Systems	Windows (XP/7/8/10), UNIX, LINUX, UBUNTU, CENTOS.
Build Automation tools	Ant, Maven
Version Control	GIT, GitHub.
Methodology	Açile, Scrum.
IDE &Build Tools, Design	Edlipse, Visual-Studio-Code, PyCharm, Juryter Notebook
Databases	Azure-SQL-DB, Azure-Synapse, Gosmos DB, MS Excel, MS Access, Oracle-11g/12c, MS SQL-Server-2016/2014/2012

PROFESSIONAL EXPERIENCE

Client: C&S Wholesale Groceries, Edison, New Jersey.

Role: Data Engineer

Present

Responsibilities:

- Oversaw end-to-end operations of ETL data pipelines in Azure Data Fact integration, transformation, and loading processes.
- Implemented Logic Apps to streamline order processing workflows and el the retail industry, resulting in improved order fulfilment and streamlined or
- Leveraged Snowflake to optimize data warehousing and analytics capabil valuable insights, data-driven decision-making, and improved targeted ma
- Deployed Azure Event Hub for real-time data ingestion in the retail indust of foot traffic, enhanced fraud detection, and improved operational agility.
- Managed the orchestration of Terraform for infrastructure automation in A provisioning and management of resources.
- Utilized Hive within the Azure ecosystem to derive valuable insights, opting warehousing, and deliver comprehensive retail analytics as an Azure Dat decision-making and enhancing business performance.
- Employed PySpark and Scala in conjunction with Azure HDInsight, Kafka advanced data processing, real-time streaming analytics, and scalable data ecosystem, driving actionable insights and enhancing decision-making ca

Commented [AN2]: Move this to the top

- Effectively utilized Oozie and ZooKeeper for orchestration and coordination of data workflows
 optimizing storage efficiency with ORC, Avro, Parquet, and delimited file formats as part of Az
 solutions, ensuring seamless data processing and efficient data storage in the retail data engl
 landscape.
- Ensured data security through encryption while seamlessly handling data data and maintaining data integrity in compliance with industry regulations
- Supervised the development and deployment of SSIS/SSRS packages fo business insights in the retail industry, enabling data-driven decision-mak reports, and facilitating data visualization.
- Prepared technical specifications, data flow diagrams, and process docur initialion, fostering si
 communication and effective collaboration within the team.

Tools & Technologies: Azure Databricks, Data Factory, Logic Apps, EventHub, Spark Streaming, Data pipelin Terraform, Azure DevOps, Oracle, HDFS, MapReduce, YARN, Spark, Hive, SQL, Python, Scala, FySpark, GIT JIRA, Kafka, Power BI.

Client: JP Morgan Chase, USA.

Role: Azure Data Engineer. 2022

lul 2020 - Mar

Responsibilities:

- Managed the development and execution of ETL data pipelines in Azure—Data Fastory, processing of millions of financial transactions daily and facilitating faster-inancial repo
- Administered Azure Data Lake and Azure SQL Database for optimal data storage solutions, preserving
 customer data for over 10 million accounts and ensuring high availability.
- Leveraged Azure Databricks and HDInsight for Big Data processing, enhancing credit risk modelling are customer segmentation, and driving actionable insights for data-based designs, making
- Implemented robust data security measures using Azure Security Center and Azure Key Vault, protecting sensitive financial information, and ensuring compliance with GDPR and other financial industry regulation
- Orchestrated automated loan approval workflows using Azure Logic Apps, reducing processing time and enhancing customer experience.
- Worked with Azure DevOps to streamline CI/CD pipelines, enabling faste supdates to sustamer facin banking applications and reducing time to market for software releases.
- Streamlined deployment and scalability of data processing environments using Docker containerization and Azura
- Implemented real-time data processing using Spark Streaming and PySpark, enabling rapid-insights from transaction data and improving fraud detection and risk management.
- developed ETL processes using SSIS and SSRS packages to facilitate detactiven decision-making.

 Played a pivotal role in cross-functional teams to develop data models and solutions that drove a 20%

Enhanced data quality and integrity by ingesting and transforming data from

- improvement in meeting business needs.

 Implemented robust data governance and security measures, safeguarding sansitive oustomer data, at
- ensuring compliance with banking industry regulations.
 Boosted system efficiency by optimizing data pipelines and queries, and improved speed of generalities banking reports using efficient Hive queries.
- Enhanced data processing efficiency by working extensively with RDDs, Data frames, and Hive for data analysis and processing, and optimized batch processing of streaming data with Spark Streaming.
- Managed project workflows using JIRA and maintained version control using Git, leading to improved project management and collaboration.

Tools & Technologies: Azure Databricks, Data Factory, Logic Apps, EventHub, Spark Streaming, Terraform, Azure DevOps, YAML, Oracle, HDFS, MapReduce, YARN, Spark, Hive, SQL, Pylaon, Scala, PySpark, GIT, JIRA Kafka, Power BI.

Client: FREDDIE MAC, VA

Role: Big Data Engineer. 2020

Feb 2019 - Jun

Responsibilities:

- Constructed and maintained end-to-end data pipelines with Sqoop, Kafka, and Spark, facilitating seamless
 data transfer from MySQL and Oracle to HDFS for more precise mortgage risk assessments.
- Worked extensively with Data Lakes and big data ecosystems like Hadoco, Spark. Hortonworks, and Cloudera, to process vast volumes of structured and unstructured data, a ding in loan performance analysis.
- Developed optimized Hive and Spark SQL queries for custom business requirements, enhancing efficiency in data-driven decision-making processes.
- Built HBase tables with Hive integration for efficient storage and retrieval, facilitating quicker access to vital market data.
- Deployed Kafka and Spark Streaming for real-time data analysis, contributing to immediate insights from streaming data for credit risk evaluations.
- Leveraged Spark and PySpark for rapid data testing and processing, expediting the data validation for more accurate analytics.
- Maintained data accuracy and quality by developing custom automation scripts in Oracle's PL/SQL resulting in improved data integrity.
- Implemented CI/CD pipelines in the Hadoop environment, enhancing devilopment and deployment efficiency for various data projects.
- Utilized JIRA for effective project management, enhancing collaboration and efficiency within cross functional teams.
- Managed clusters using Zookeeper and scheduled jobs with the Oozie workflow engine, optimizing data processing workflows for mortgage market analyses.
- Collaboratively resolved JVM-related issues, ensuring smooth system performance for data processing tasks.
- Maintained code repositories with Git, bolstering version tracking, and efficient team collaboration

Tools & Technologies: Sqoop, MYSQL, HDFS, Apache Spark Scala, Hadoop Hive, Cloudere, HBASE, Kalke MapReduce, Zookeeper, Oozie, Python, PySpark, Ambari, JIRA.

Client: WSO2, CA

Role: Hadoop Developer. 2019

Jul 2017 – Jai

Responsibilities

- Designed and implemented ETL jobs using Spark-Scala to migrate extensive datasets from Oracle to MySQL, streamlining data accessibility for a mission-critical financial analysis project.
- Utilized Spark-Scala and Spark-Cassandra Connector APIs for tasks such as migrating customer data and generating business reports, enabling the customer retention team to take data-driven decisions.
- Built a Spark Streaming application that tracked real-time sales, providing instant insights for the sales tean
 during peak retail periods like Black Friday and holiday sales.
- Analysed data types and source data, ensuring optimal data quality for PewerBI ad-hoc report generation
 used in quarterly business review meetings.
- Converted complex SQL scripts into PySpark for an improved compatibility with the Hadeop accesystem, leading to a substantial increase in query performance for the data analytics team.
- Seamlessly extracted data from diverse data sources into HDFS using Scoop, contributing to a multi-source
 data integration project aiming to consolidate customer data.
- Managed data importing from various sources, performed transformations using Hive and MapReduce, and loaded data into HDFS, supporting a large-scale marketing campaign and lysis project.
- Implemented automation for deployments using YAML scripts, accelerating the build and release processe for the new customer recommendation system.

- Deployed key Hadoop ecosystem components such as Apache Hive, Apache Pig. HBase. Apa Zookeeper, Flume, Kafka, and Sqoop for a big data migration project.
- Applied data classification algorithms using MapReduce design patterns for an Al-based fraud-detection system.
- Improved MapReduce job performance by creating combiners, partitioning, and implementing distributed cache for a project aimed at optimizing the organization's data processing pipeline.
- Managed source code in Git and GitHub repositories, enhancing team co laboration and productivity during the development of a new real-time data analytics platform.

Tools & Technologies: Hadoop, Hive, spark, PySpark, Sqoop, Spark SQL, Cassandra, YAML, ETL

Client: Change Healthcare, Nashville, TN

Role: Data Warehouse Developer. Feb 2015

Responsibilities:

- Served as a SQL Server Analyst/Developer/DBA, using SQL Server 2012, 2015, and 2016 to optimiz
 large-scale healthcare databases, enhancing data availability.
- Designed and scheduled DTS/SSIS Packages, improving data transfer efficiency within healthcare data systems.
- Updated Erwin models for Consolidated Data Store (CDS), Actuarial Data Mart (ADM), and Reference DB aligning with evolving healthcare standards and user requirements.
- Applied TFS for source control and deployment tracking, ensuring consistent script deployment
- Exported current Data-Models as PDFs, sharing them via SharePoint for increased stakeholds accessibility.
- Managed the development, administration, and maintenance of key databases, enabling reliable healthcare data-warehousing.
- Authored Triggers, Stored Procedures, and Functions using Transact-SQ _(TSQL) to facilitate robus healthcare data operations.
- Deployed scripts according to Configuration Management and Playbook regulrements, maintainin seamless data operations.
- Optimized data storage and access by managing Files/File groups and Table/Index association
- Enhanced data processing speed and efficiency through query tuning and performance tuning
- Ensured data accuracy and integrity using Quality Center for defect tracking and resolution.
- Safeguarded sensitive healthcare data and compliance by maintaining user roles and permissions

Tools & Technologies: SQL Server 2008/2012 Enterprise Edition, SSRS, SSIS, T-SQL, Windows Server 2009, Performance Point Server 2007, Oracle 10g, visual Studio 2010.

Client: Aetna Inc., Hartford, CT.

Role: SQL Engineer.

Feb 2013 – Ja
2015

Responsibilities:

- Developed stored procedures, triggers, and functions, optimizing SQL-Server performance through indexing and monitoring techniques.
- Implemented ETL data flows using SSIS, facilitating data migration and transfermation from various source including SQL Server, Access, and Excel.
- Gained experience in dimensional data modelling and identified facts and dimensions for Data Mart design along with developing fact tables and dimension tables using Slowly Changing Dimensions (SCD) techniques.

- Managed error and event occurrences during ETL processes, employing constraints, breakpoints, checkpoints, and logging.
- Acquired experience in building SSAS cubes, implementing aggregations, defining KPIs, partitioning and creating data mining models, contributing to deployment, and processing of SSAS objects.
- Developed a range of reports, including parameterized, chart, graph, linked, dashboard, segregards, and drill-down/drill-through reports on SSAS cubes using SSRS.

Tools & Technologies: MS SQL Server 2016, Visual Studio Legacy Versions, S\$IS, Share point, MS Access, Git