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Experienced Data Engineer with 4+ years in advanced data solutions and ETL optimization. Led implementation, increasing productivity by 30% and cutting costs by 20%. Proficient in AWS, Azure and GCP, driving data-driven insights and operational efficiency.

### **Technical Proficiencies & Certifications**

- Languages & ML: Python (Libraries-pandas, NumPy), ASP.Net, ADO.Net C#, PySpark, R Language, Bash Shell Scripting, Web scraping (Selenium, BeautifulSoup, ScraPy), statistical modeling & machine learning (TensorFlow, Keras, PyTorch, Scikit-Learn, Langchain).
- Tools & Visualization: Tableau, Power BI, MS SQL Server, PostgreSQL, MS Office, Azure synapse, SAS Enterprise Miner, Databricks, Git, Bitbucket, DBT SQL, Snowflake, Data Bricks, Azure Datafactory, AWS services- Redshift, S3, Lambda, Google Cloud Platform Services GCS, Bigquery, Firestore, DataFlow, Pub/Sub, Kafka, Artifact registry, Airflow, IAM, Cloud Functions, Jira, Confluence.
- Databases and Bigdata Technologies: MySOL, MongoDB, Cassandra, Hadoop, Spark, Spark SOL, and Hive.
- Certifications: AWS Cloud Practitioner, GCP Associate Cloud Engineer, Astronomer Certification for Apache Airflow Fundamentals.

### Education

Master in Business Analytics and Information Systems | University of South Florida | Tampa, FL Aug Bachelor of Electronics & Communication Engineering | Sree Vidyanikethan Engineering College | Tirupati, IN Jul

Aug 2022- May 2024.

Jul 2015 - Apr 2019.

# **Career Experience**

Graduate Assistant I Data Engineer. University of South Florida, Tampa

Nov 2022 - May 2024

- Architected and deployed an efficient ETL system integrating Canvas course data using Azure services like **ADL Gen2,ADF**, **DataBricks**, and **SODA** API.Managed 4 courses, resulting in a 40% boost in data accuracy and a 30% decrease in processing duration.
- Implemented automation to detect and filter inactive students, resulting in a 20% increase in student engagement and targeted email notifications to instructors.
- Harnessed Canvas LMS API to extract detailed student data and analytics, facilitating intervention strategies and personalized support
  initiatives. This resulted in a 25% increase in student retention and a 30% improvement in course completion rates.

Data Engineer | Freelance

Jul 2022-Oct 2022

- Designed an ETL pipeline for a multi-location restaurant group using **Azure Data Factory**, automating data extraction and loading from SFTP to Azure Synapse, ensuring 100% data availability within a 7-day window.
- Implemented error-handling mechanisms with automated retries & alerts, ensuring data integrity. Developed a real-time monitoring dashboard, tracking ETL process status & failures, enhancing operational efficiency.
- Devised Google Cloud Functions to process daily CSV/json uploads, appending data to BigQuery, achieving 99% pipeline reliability with real-time failure monitoring.

Data Engineer, Infosys, Hyd

Oct 2019 - Jun 2022

- Orchestrated the automation of over 70 data pipeline jobs with Python and Airflow DAGs, enhancing operational efficiency; Leveraged Firestore, Pub/Sub, Dataflow, GCS, and Composer, Stack Driver for advanced Meta Data Management and seamless data processing
- Optimized SQL logic through **DBT**, boosting cost-effectiveness by 90% and enhancing data lineage, accessibility, and system performance. Proficient in Azure technologies, including **Data Bricks**, **Event Hubs**, **Cosmos DB**, **Data Factory**, **Azure Functions**. Experienced in Python development frameworks like **Flask**, and **Fast API**; skilled in writing and utilizing **Databricks** Notebooks.
- Enforced automated anomaly detection and **Six Sigma** analysis via **Cloud Functions**, validating proofs-of-concept for onboarding 3 new regions and 2 e-retailers.
- Pioneered the creation and execution of **KPIs** such as CTR, conversion rates, ROAS, and cart abandonment rates; employed data dictionaries to ensure precise SQL logic, enabling data-driven decisions and contributing to a 15% increase in e-commerce campaigns.
- Built Cloud **Data Fusion** pipelines to transform API responses, exporting over 10TB of data to external servers, streamlining data synchronization, and enhancing data availability by 40% for downstream processing.
- Directed CI/CD deployments via GCP **Artifact Registry** for 5 significant data infrastructure ventures, guaranteeing smooth updates with zero downtime and achieving a 30% enhancement in deployment frequency.
- Deployed Docker images using Cloud Run, achieving 99.9% uptime and reducing deployment time by 40%.
- Restructured processes and leveraged automation tools & drove a significant 25% enhancement in deployment efficiency. Earned
  'The Insta Rise Award' and garnered client praise for adept task execution.

### Associate Data Engineer, Tata Consultancy Services, Chennai, TN

Jun 2019 - Sep 2019

- Designed and maintained scalable data pipelines using AWS services (including S3, EC2, IAM, Athena, Glue, Lambda functions, SNS, and Redshift) and Databricks, optimizing data flow and storage to reduce processing time by 30%.
- Engineered and optimized ETL processes using PySpark on **Databricks** and **Kafka** for real-time analytics and led successful migration of legacy systems to AWS, resulting in a 20% cost savings and enhanced data availability for data-driven decision-making.

## **Academic Projects**

- · Detect Al Generated Text.
- ChatBot for MSBAIS Program University of South Florida.
- · Object detection for exam monitoring Application.

Jan 2024 - Mar 2024

Sep 2023 - Dec 2023

Sep 2023 - Dec 2023