

Mani Shankar Chamidisetty

Data Engineer

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Summary

Experienced Data Engineer with a proven track record in designing, building, and optimizing scalable data pipelines and workflows. Proficient in Informatica, Teradata, Oracle SQL, and AWS services (Redshift, Glue, RDS, IAM, Step Functions) for large-scale data processing and transformation. Skilled in ETL solutions, database management, and cloud architectures, with expertise in distributed processing using PySpark and infrastructure deployment with Terraform. Hands-on experience in implementing CI/CD pipelines for seamless automation and deployment. Committed to delivering efficient and reliable data solutions for complex business challenges.

Education

Florida Atlantic University, Boca Raton, FL

Masters in Data Science and Analytics

August 2023 – April 2025

Vignan's Lara Institute of Technology & Science

Bachelor of Technology in Computer Science and Engineering

June 2017 – Aug 2021

Professional Experience

Accenture Solutions Pvt Ltd:

- **Data Engineering Analyst (Dec 2022 – Jul 2023), Chennai, India:**

- Applied data engineering principles to develop reusable workflows for data ingestion, transformation, and quality checks to build scalable data pipelines and automated data flow processes for efficient consumption by downstream systems.
- Migrated data from legacy systems to cloud environments following cloud architecture principles.
- Identified and resolved data irregularities, ensuring data accuracy and reliability.
- Worked closely with the build team to manage job configurations and optimize workflows across diverse technologies, including Linux, Perl, UAC, ESP, and Mainframe.

- **Data Engineering Associate (October 2021 – December 2022), Chennai, India:**

- Designed, built, and configured applications to meet business process requirements using ETL tools like Informatica PowerCenter.
- Collaborated with upstream teams to gather and process data, ensuring accurate and timely delivery to downstream teams.
- Monitored and managed workflows, addressing failures and ensuring smooth operations of mainframe jobs, Linux jobs, and Informatica jobs.
- Gained expertise in handling Teradata, Oracle SQL, and SQL Server for data management and optimization.

Salient Minds Intern (April 2020 – July 2020):

- Developed static and responsive web pages using HTML5, CSS, and JavaScript, ensuring optimized mobile views.
- Collaborated with cross-functional teams to design user-friendly interfaces and enhance the overall user experience.
- Worked with back-end technologies like Java and Python to build server-side applications and APIs.
- Managed databases efficiently using SQL, ensuring seamless integration with front-end components.
- Gained hands-on experience in web development best practices and agile methodologies, delivering high-quality solutions within deadlines.

Projects

Optimizing Data Migration and Processing from Oracle to AWS:

- Optimized data migration pipelines by implementing parallel batch processing with AWS Step Functions and PySpark, reducing processing time by 90%. Automated workflows using Terraform for infrastructure setup.

- **Tools and Methods:** AWS (Glue, S3, Redshift, Athena, Amazon RDS, IAM, Step Functions, Cron Jobs, Event Bridge Triggers), PySpark, Terraform, ETL, CI/CD.

Prediction of Parkinson's Disease Using Machine Learning:

- Developed machine learning models to detect early signs of Parkinson's Disease using voice data. Achieved 92% accuracy using XGBoost, and created a user-friendly UI for single-patient predictions.
- **Tools and Methods:** Python, Jupyter, XGBoost, SVM, ETL, EDA

Secure Data Hiding Using Image Steganography:

- Built a tool to securely hide text or images within other images by manipulating RGB pixel values, ensuring data security and encryption.
- **Tools and Methods:** Python, APIs, Image Processing, Data Security.

End-to-End Movie Analytics Pipeline with AWS:

- Designed and implemented a cloud-based data analysis pipeline to explore trends in a large movie dataset using AWS services and Tableau. Performed ETL with AWS Glue, queried data with Amazon Athena, and visualized insights using Tableau dashboards.
- **Tools and Methods:** AWS (S3, Glue, Athena, Amazon RDS, IAM), Tableau, SQL, Data Analysis, Visualization, EDA

Spotify Song Popularity Analytics Using Audio Features and Spotify API:

- Conducted an in-depth analysis of audio features affecting song popularity using a custom dataset collected via the Spotify API. Applied exploratory data analysis, correlation analysis, and machine learning techniques for insights.
- **Tools and Methods:** Spotify API, Python, Machine Learning (XGBoost, K-Means), Data Visualization (Matplotlib, Seaborn), EDA, Rate Limit error optimization.

Technical Skills

Programming: C, C++, Java, Python, R Programming, Perl, PHP

Web Development: HTML, CSS, JavaScript, Bootstrap

Databases: Amazon Redshift, Teradata SQL, MongoDB, PostgreSQL, Amazon RDS, MySQL, PL/SQL, Oracle SQL

Domain Skills: Microservices, Backend Development, ETL Pipelines, Distributed Systems, Exploratory Data Analysis. Distributed Parallel Processing, API data extraction and processing

Visualization tools: Tableau, PowerBI

Social Media Analytics and Data Analytics tools: Emplify, Google Analytics, Canva

ETL and Pipeline Monitoring tools: Informatica Powercenter, ESP, UAC

Cloud and Deployment Skills: AWS (S3, Glue, Athena, IAM, RDS, Redshift, EventBridge Triggers, Step Functions), Terraform

Big Data and Distributed Processing: Apache Spark, PySpark, Hadoop, Kubernetes

Version Control and Automation: Git, JIRA, CI/CD Pipelines

Operating Systems and System Tools: Linux, Unix, Putty

Skillset acquired from Masters: Business Analytics, Social Media and Data Analytics, Deep Learning, Reinforcement Learning, Artificial Intelligence

Certifications: HackerRank Certified in Problem Solving, AWS Certified Cloud Practitioner Essentials, Google Certified Python Programmer from Coursera

Other Skills: REST APIs, Docker