MANIKANTA BANDARI

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PROFESSIONAL SUMMARY

Senior Data Engineer with 5+ years of experience architecting scalable cloud solutions using Snowflake, AWS, and PySpark. Expert in leading legacy migrations and engineering regulatory pipelines for the healthcare sector, bridging technical execution with strategic business goals to ensure compliance.

PROFESSIONAL EXPERIENCE

Elevance Health (Anthem)   **Richmond, VA**
Cloud Data Engineer   **February 2023 – present**

- Engineered scalable ETL pipelines migrating 1+ billion records of member datasets from Teradata to Snowflake, reducing query latency by 40% and lowering monthly compute spend by approximately 20% by optimizing the table clustering and clustering keys in Snowflake.
- Architected serverless orchestration workflows automating 50+ daily ingestions with 99.9% availability, eliminating 5–10 weekly pipeline failures and saving ~20 engineering hours per week while preventing claims processing delays and penalty exposure.
- Orchestrated the end-to-end CMS regulatory data lifecycle, ensuring 100% data accuracy in Star Ratings submissions (PP1/PP2/Final data) used for federal compliance and public plan ratings visibility.
- Developed near real-time data synchronization pipelines reducing Stars Portal refresh latency and cutting provider data-latency support tickets by 80%, ensuring timely access to critical provider performance ratings.
- Executed rigorous PP1/PP2 data validation protocols, eliminating 98% of discrepancies prior to CMS submission and avoiding potential civil penalties while enabling executives to confidently allocate care-gap closure budgets.
- Automated enterprise BI reporting pipelines, reducing manual analysis time by 15% and eliminating two days per week of Excel-based reconciliation, enabling daily care-gap identification and faster provider outreach decisions.
- Engineered Change Data Capture pipelines reducing data freshness latency from 24 hours to 15 minutes, enabling clinical teams to perform timely post-discharge outreach and reduce hospital readmissions.
- Developed automated data masking and tokenization workflows enabling secure self-service analytics for 50+ analysts while maintaining 100% HIPAA compliance and eliminating weeks-long PHI access request cycles.

Innominds Software   **Bengaluru, India**
Associate Data Engineer   **August 2019 – July 2021**

- Developed PySpark migration workflows converting 15+ legacy SQL modules into a cloud data lake, enabling decommissioning of unsupported SQL Server 2008 infrastructure and unlocking large-scale machine learning workloads for marketing analytics.
- Optimized PySpark ETL workloads, reducing cluster resource consumption by 30% and enabling downsizing from r5.4xlarge to r5.2xlarge instances, effectively halving compute costs for production pipelines.
- Resolved production SSIS pipeline issues, maintaining 99% uptime for daily sales inventory reporting and ensuring store managers received timely restocking insights to prevent lost sales on high-demand items.
- Engineered an automated data validation framework preventing 95% of load failures and eliminating 2–3 hours of daily manual rework by rejecting malformed vendor files prior to ingestion.

CERTIFICATIONS

- SnowPro Core Certification – Snowflake   **March 2025**
- Microsoft Certified : Azure Data Engineer Associate   **March 2025**

EDUCATION

Arizona State University **Tempe, AZ**
Masters in Computer Engineering **May 2023**

Kakatiya Institute of Technology and Science **Telangana, India**
Bachelors in Electrical and Electronics Engineering **June 2019**

SKILLS

- **Big Data & Distributed Systems:** Hadoop, MapReduce, HDFS, Hive, Apache Spark, Kafka
- **Data Engineering & ETL Tools:** PySpark, Informatica (legacy migration), Data Masking, Change Data Capture (CDC), Serverless Orchestration
- **Programming Languages:** Python, SQL, Java, Scala
- **Databases:** Snowflake, Teradata, MySQL, PostgreSQL, SQL Server
- **Cloud Platforms:** AWS (Glue, Lambda, SageMaker, S3, Redshift, Athena, CloudFormation), Google Cloud Platform (GCP)
- **Machine Learning & Analytics:** Supervised and Unsupervised Learning, Deep Learning (CNNs, RNNs), NLP, TensorFlow, PyTorch, Scikit-learn
- **Data Visualization & Reporting:** Business Intelligence (BI) Reporting, Data Validation Frameworks, Real-Time Data Synchronization
- **Regulatory & Compliance Expertise:** HIPAA, CMS Data Submission, Healthcare Data Governance
- **Development & Automation:** API Integration, CloudFormation Templates, Automated Data Pipelines, Cost Optimization