ANAGHAA LONDHE

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EXPERIENCE

Data Science Engineer -Dish Network   **Jun 2022 - Nov 2025**

- Built a unified data platform using, Delta Lake, and Amazon Redshift; created Python-based PySpark ETL pipelines processing billions of records daily, cutting analysis time by 40% for retention teams
- Built scalable ETL system using Python, PySpark, and Databricks Delta Live Tables to transform model outputs into analysis-ready datasets for cross-functional teams
- Implemented data governance using Unity Catalog with medallion architecture (bronze-silver-gold), enabling self-service analytics for 10+ teams on Databricks
- Improved SQL query performance by 60% using materialized views, partitioning, and window functions
- Created proof of concept to test A2A (Agent-to-Agent) protocol communication between AI frameworks, evaluating interoperability across multi-agent systems (Amazon Bedrock Agents, CrewAI, AWS Strands, Databricks Agents)
- Implemented MLflow to monitor traces and logs of agent-based systems, providing visibility into agent interactions and execution flows across AI frameworks
- Built proof of concept RAG search system using Amazon Bedrock and OpenSearch, reducing response time by 50% through optimized vector storage and AWS Step Functions
- Developed proof of concept NLP contract analysis tool using cosine similarity, Levenshtein distance, and Jaccard index algorithms on AWS Lambda and Amazon RDS to compare incoming documents with existing contracts in real-time via REST APIs
- Set up ELK stack (Elasticsearch, Logstash, Kibana) on AWS to monitor and analyze logs from Amazon EKS clusters; created real-time dashboards for Kubernetes observability

Data Visualization Intern-Black Diamond Therapeutics   **Jul 2021 - Dec 2021**

- Planned and implemented a pipeline structure for direct data ingestion from AWS, utilizing Glue, S3, and Athena into visualization tools for analysis
- Developed an intuitive and interactive Power BI dashboard, seamlessly integrating advanced visualization techniques to enhance data representation, ensuring clarity and actionable insights for effective data exploration and analysis
- Developed codebase and documentation for accomplished objectives and prepared a tutorial for the stakeholders and users of the pipeline, driving a 30% improvement in data-driven decision-making capabilities
- Built dashboards using Matplotlib and Seaborn for cancer related data, 70% reduction in the preparation time

PROJECTS

Cancer Insights Analytics: dbt Data Transformation

- Built dbt project with layered architecture (staging, intermediate, marts) to transform raw lung cancer patient data into analysis-ready datasets
- Implemented data quality tests (unique, not_null, accepted_values) to ensure data integrity across transformation layers
- Created SQL models and Jinja macros to analyze severity patterns across demographics, lifestyle, and environmental risk factors

Data Warehousing: Data Integration and Query Formulation

- Spearheaded the conversion of raw data into relational tables, populating a test database for efficient storage and retrieval
- Designed and implemented a streamlined snowflake schema, optimizing data architecture and enhancing system performance in Pentaho
- Crafted complex SQL statements to provide business users with sample reports for analysis on OracleSQL

TECHNICAL SKILLS

Programming:	Python, SQL
ML/AI:	NLP, LLM, Generative AI, RAG
Data Engineering:	Apache Spark, PySpark, Databricks, Snowflake, Redshift, ETL/ELT, Data Pipeline, Kafka
Cloud & DevOps:	AWS, Azure, Docker, Kubernetes, Terraform, Git, CI/CD
AWS Services:	Lambda, Bedrock, SageMaker, S3, EC2, Glue, EMR, Kinesis, CloudWatch
Data Science:	Pandas, NumPy, MLflow, Jupyter,
Databases:	MySQL, PostgreSQL, DynamoDB, OpenSearch
Visualization:	Tableau, Power BI
Workflow Tools:	Apache Airflow, dbt, Langchain
Methodologies:	Agile/Scrum, MLOps, Data Governance
Certifications:	AWS Solutions Architect Associate

EDUCATION

Master's in Information Systems
University of Colorado, Denver, CO

Bachelor of Engineering –Computer Science and Technology
SNDT Women's University, India