

Deepana Dhakshinamurthy

Providence | (857)-379-6706 | deepanadhakshinamurthy@gmail.com | [Deepana_GitHub](#) | [LinkedIn](#) | [Portfolio](#)

SUMMARY

Data Engineer with **9 plus years of expertise** in Data Engineering, MDM, Data Modelling, Platform Modernization, ETL, Cloud platforms (AWS, Azure and GCP), Performance Tuning and Data Visualization. Proven track record of delivering solutions for US clients across the **Insurance, Healthcare and Financial** industries

TECHNICAL SKILLS

- **Programming language:** Python, PySpark, SQL, HTML, C, C++, UNIX, Excel (VLOOKUP, Pivot, Charts)
- **Data Engineering Tools:** Power BI, Tableau, AWS Glue, ADF, Databricks, Airflow, Docker, SSIS, SSRS
- **Python Libraries:** Pandas, Numpy, Matplotlib, Scikit-learn, SciPy, Seaborn, Plotly, boto3
- **Database Management System:** SQL Server, Oracle, PostgreSQL, NoSQL, MySQL, Azure SQL, AWS RDS, Redshift
- **Project Management & Tools:** Agile (Scrum), SDLC, Jira, Azure DevOps, Confluence, TFS, GitHub, Tortoise, SVN
- **Office Suite:** Microsoft Word, PowerPoint and Excel, Google sheets, Microsoft 365, Outlook, OneNote

PROFESSIONAL EXPERIENCE

Fidelity Investments

Oct 2025 to Present

Data Analyst (Snowflake, AWS)

Smithfield, Rhode Island

- Led end-to-end data analysis for migrating key entities from the legacy PostgreSQL platform to Snowflake, streamlining transformation logic, improving data consistency by **30%**, and enabling a high-performance Snowflake data model
- Participated in **Scrum** ceremonies (Agile), managing backlog tracking in Jira, Confluence to meet sprint goals
- Enabled seamless application onboarding to **AWS CI/CD** pipelines through Terraform development, Jenkins pipeline configuration, and automation of deployment processes utilizing AWS S3, IAM, KMS, and Parameter Store
- Built Snowflake data pipelines using Snowpark for in-warehouse transformations, **Snowpipe** for automated ingestion

Colorado Department of Transportation

June 2024 to Dec 2024

Data Analytics Intern (Azure SQL, SQL Server, Power BI, Python)

Denver, Colorado

- Constructed interactive **Paginated Power BI reports and Dashboards** integrated with Azure SQL and **Power Automate** to analyze Colorado's state bridge inspections, enhancing financial decision-making and reducing **inspection delays by 25%**
- Performed **exploratory data analysis (EDA)** on bridge data structures and developed ETL pipelines to perform **data analysis** and integrate a new data model into existing system, improving data accessibility by 35%

Cognizant Technology Solutions

July 2022 to June 2023

Senior Associate (MySQL, Oracle, MSSQL, Power BI, Tableau, Azure)

Chennai, India

- Coordinated with stakeholders and cross-functional teams to deliver Data Engineering solutions across Insurance, Financial, and Healthcare domains, and supported team growth by mentoring over 5 junior engineers
- Engineered **ETL pipelines** using **Azure Data Factory**, **Azure Databricks**, **Azure Synapse**, **Azure Data Lake and SQL** procedures to extract, transform data (Healthcare, Insurance) reducing processing time by 40%
- Enhanced ETL workflows by reducing processing time (**Performance Tuning**) by **50%** through indexing, SQL Server Profiler, Execution Plans, logs handling and Data Analysis using **SQL (Procedures, functions, views)** and **Excel**
- Automated **Python** scripts for data loading, transformation and orchestrated workflows using **Airflow** in **Docker** containers with **CI/CD** deployment via **GitHub Action** and **Azure DevOps**, resulting in **60% faster deployment cycle**

Associate (SQL Server, SSRS, SSMS)

Nov 2017 to June 2022

- Launched **Dimensional, Fact, Conceptual and Logical** data models using **ERWin** tool, developed normalized relational DB and resolved **70% of critical** issues in UAT, QA, PROD regions by implementing **data governance and quality standards**
- Orchestrated complex **SSIS** packages and advanced SQL (**Joins, subqueries, CTEs, window functions**) to extract and transform data from **sources** like CSV, XML, JSON applying control flow tasks, error handling, and transformations
- Crafted dashboards using Power BI (DAX, Power Query) and Tableau (LOD Expression) that highlighted **KPIs** for **financial** products, to streamline business operations, boosting operational efficiency by 30%
- Designed **20+ SSRS reports** including drill-down, parameterized reports reducing manual data analysis time by 40%

Merit Software Services Private Ltd

Oct 2016 to Oct 2017

SQL Developer (SQL, SSIS, C#, SSRS)

Chennai, India

- Created SQL queries, SSRS reports, and SSIS packages aligned with backend requirements of a web portal
- Automated a manual data loading process using SSIS packages, improving data loading efficiency by 40%

Capgemini

July 2014 to Sep 2016

Senior Software Engineer (SQL Server, SSIS, SSRS, PLSQL)

Navi Mumbai, India

- Analyzing data using SQL, Excel and reports generation through SSRS
- Enhanced File Transfer Process (FTP) by **40%** (utilized SSIS and replaced the usage of command prompt)

ACADEMIC PROJECT (Northeastern University)

Chatbot Implementation (Snowflake, LLM, Streamlit) Jan 2025 to Apr 2025

- Built an interactive multi-turn recommendation chatbot with Streamlit UI, enabling personalized user experiences
- Integrated data from AWS S3 into Snowflake via Snowpipe, designed normalized models using DBT data models
- Implemented LangChain + Ollama LLM for natural language understanding and generated MiniLM embeddings stored in Snowflake and used FAISS for efficient semantic search and personalized recommendations

Diabetes Readmission Prediction System (ML, Python, Big Query, GCP, Looker, Airflow, Docker) Jan 2025 to Apr 2025

- Conducted statistical analysis on patient records via hypothesis testing, correlation, feature selection to identify key factors
- Optimized and evaluated Machine Learning models (XGBoost, Random Forest, Decision Tree) using MLFlow and evaluated performance using key metrics like MSE, RMSE, and R-squared while utilizing DVC for data version control
- Implemented unit and integration testing for data transformation, model build pipelines using Pytest
- Persisted model prediction outputs to GCP BigQuery and built interactive Looker dashboards to monitor response time
- Orchestrated data workflows with Apache Airflow in Docker containers on GCP VM, deployed ML models on GCP buckets and managed CI/CD pipelines via GitHub Actions for streamlined deployment

EDUCATION

Northeastern University, Boston Aug 2025

Master of Science in Data Analytics Engineering GPA: 4/4

Coursework: Data Mining, Gen AI with LLM in Data Engineering, Machine Learning Operations (MLOps)

SRM Valliammai Engineering College, Chennai April 2014

Bachelor of Engineering in Electrical and Electronics CGPA: 8.13/10

ACHIEVEMENTS

Received STAR award, interim hikes, client appreciations for delivery excellence at Cognizant