DEEPANA DHAKSHINAMURTHY

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SUMMARY

Data Engineer with 9 plus years of expertise in Advanced SQL, Python, Data Management, Data Modelling, Normalization, ETL Pipelines, Data warehousing, cloud platforms and Data Visualizations. Expert in leading Performance Tuning, Platform Modernization, Cloud Migration projects under financial, Insurance and Healthcare domain

TECHNICAL SKILLS

- **Programming language**: Python, SQL, HTML, C, C++, UNIX
- **BI Tools:** SSIS, SSRS, Power BI, Tableau, AWS Glue, Azure Data Factory, DBT
- **Cloud & Storage Platforms**: Snowflake, Azure, AWS (S3, RDS)
- **Python Libraries**: Pandas, Numpy, Matplotlib, Scikit-learn, TensorFlow, SciPy, Seaborn, Plotly, PyTorch,
- **Database Management System:** SQL Server, Oracle, DB2, NoSQL, MySQL,AWS Redshift, Azure SQL DB
- **Project Management & Tools** : Agile (Scrum, Kanban), Jira, Azure Devops,TFS, GitHub, Tortoise, SVN

PROFESSIONAL EXPERIENCE

Colorado Department of Transportation | Data Analyst Intern | *Denver, Colorado*   *June 2024 to Dec 2024*
[SQL | Power BI | Python | Azure SQL DB]

- Designed Paginated Power BI reports and Dashboards to examine the Inspection details of Colorado's state bridges which improved the financial decision-making and inspections monitoring process
- Engaged on database designing, normalization, schema development and constructing ETL pipelines to accommodate new data model into existing Azure Database which enhanced data accessibility by 35%

Cognizant Technology Solutions | Senior Associate | *Chennai, India*   *Nov 2017 to June 2023*
[SQL | SSIS | ADF | AWS Glue | Power BI | Tableau | Python | Excel]

- Led Business Intelligence projects in Insurance(P&C), Banking and Healthcare by collaborating with stakeholders and cross-functional teams to understand the business requirements
- Developed and migrated ETL pipelines and SQL queries from SSIS, SQL to AWS Redshift, ADF, AWS Glue in Snowflake, Azure and AWS cloud premises **achieving 40% cost savings**
- Accomplished Performance Tuning, Data cleaning by deploying SQL, ETL, Python achieving **50% cost reduction**
- Crafted and optimized reports, dashboards using **Power BI** and **Tableau** to streamline daily job loading processes and continuously monitor key metrics (**KPI**), resulting in a notable **30%** improvement in operational efficiency

Merit Software Services (P) Ltd | SQL developer | *Chennai, India*   *Oct 2016 to Oct 2017*
[SQL Server | Python | SSIS | C# (Script Task) |SSRS]

- Designed SQL queries, SSRS reports, and SSIS packages based on backend requirements for a .NET web portal
- Automated a manual data loading process using SSIS packages, improving data loading efficiency by 40%, and implemented error handling with automatic email notifications to relevant teams

Capgemini | Senior Software Engineer **|** *Navi Mumbai, India*   *July 2014 to Sep 2016*
[SQL Server | SSIS |SSRS]

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

EDUCATION

Northeastern University, Boston | **GPA: 4**   *Sep 2025*
Master of Science in Data Analytics Engineering
Coursework: Data Mining, Computation and Visualization for Analytics, Database Management Systems
Gen AI with LLM in Data Engineering, Machine Learning Operations
Valliammai Engineering College, Chennai   *April 2014*
Bachelor of Engineering in Electrical and Electronics

ACADEMIC PROJECT

EEG Classification [Python]   *Sep 2023 to Dec 2023*
Implemented **Regression** techniques, advanced **Machine Learning** concepts such as **Recurrent Neural Networks** (RNNs) and **Convolutional Neural Networks** (CNNs)and evaluated model performance using accuracy, precision, and F1 score

S&P 500 Stock Analysis [Python]   *Jan 2024 to April 2024*
Conducted analysis of S&P 500 stock values by collecting historical stock values from S&P associated firms, deployed ML Models such as **KNN, Random Forest** and **Decision Tree** to assess their impact and forecast S&P stock values

Chatbot Implementation [AWS S3 | DBT | Snowflake | LLM]   *Jan 2025 to Apr 2025*
Built an interactive chatbot system by integrating data from an **AWS S3 bucket** into a Snowflake DBT ETL pipeline and leveraging Hugging Face for sentiment analysis and LangChain for LLM-based recommendations

ACHIEVEMENTS

Recognized with STAR Award, Interim hikes and promotions during my tenure at Cognizant