

DEEPANA DHAKSHINAMURTHY

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EDUCATION

Northeastern University, Boston

May 2025

Master of Science in Data Analytics Engineering | **GPA: 4**

Course work: Data Management System (MySQL, NoSQL), Foundations of Data Analytics (Python), Computation Visualization and Analysis (Tableau, Florish), Data Mining (Statistics, Machine Learning concepts)

Valliammai Engineering College, Chennai

April 2014

Bachelor of Engineering in Electrical and Electronics

Course work: Data Structures and Algorithms, Object Oriented Programming (C++ and Java)

TECHNICAL SKILLS

- **Programming language:** Python, SQL, HTML, C, C++, UNIX
- **Python Libraries:** Pandas, Numpy, Matplotlib, Scikit-learn, TensorFlow, SciPy, Seaborn, Plotly, PyTorch, NLTK
- **BI Tools:** SSIS, SSRS, PowerBI, Tableau, AWS Glue, Azure Data Factory
- **Database Management System:** SQL Server, Oracle, NoSQL, MySQL, AWS RDS, Azure SQL Database
- **Software Development Life Cycle & Tools:** Agile, Jira, Azure Devops
- **Version Control:** TFS, GitHub, Tortoise, SVN
- **Office Suite:** Microsoft Word, PowerPoint and Excel, Google sheets, Microsoft 365, Outlook, OneNote
- **Machine Learning:** Classification, Regression, Clustering, Multivariate Analysis, Random Forest, Bayesian Methods, Linear Models, Decision Trees, KNN, Neural Networks, Convolutional and Recurrent Neural Networks

PROFESSIONAL EXPERIENCE

Colorado Department of Transportation | Data Analyst Intern | *Denver, Colorado*

June 2024 to Dec 2024

[SQL | PowerBI | Python]

- Designed Paginated PowerBI reports on the condition of Colorado's state bridges which improves financial decision-making
- Developed stored procedures and ETL pipeline to facilitate data loading leading to a **30% reduction** in data processing time
- Collaborated on the design and development of schema and database structures for a new project, resulting in a more efficient data organization system that improved accessibility and streamlined **data retrieval processes by 25%**

Cognizant Technology Solutions | Senior Associate | *Chennai, India*

Nov 2017 to June 2023

[SQL | SSIS (ETL) | PowerBI | Tableau | Python]

- Led technical projects by collaborating with stakeholders and cross-functional teams to understand business requirements
- Demonstrated expertise in query optimization, migration projects, and deploying advanced SQL and complex SSIS ETL packages, achieving a **50% cost reduction** and earning a promotion and **STAR award**
- Conducted exploratory data analysis (EDA) in Python, along with data cleanup and integration using SQL and Excel functions (such as Pivot and VLOOKUP), resulting in the successful resolution of **70% of critical defects**
- Crafted and optimized reports and dashboards using Power BI and Tableau to streamline daily job loading processes, continuously monitored key metrics (KPIs), and achieved a **30% improvement** in operational efficiency

Merit Software Services (P) Ltd | SQL developer | *Chennai, India*

Oct 2016 to Oct 2017

[SQL Server | 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 by implementing SSIS packages and increased the **data loading efficiency by 40%**
- Implemented Error Handling in the automation process, including 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)

ACADEMIC PROJECTS

Customer segmentation [Python]

Sep 2023 to Dec 2023

- Applied RFM analysis and K-means clustering to segment customers and understand behavior. Utilized **ARIMA** for time series forecasting to predict future trends.

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