DEEPANA DHAKSHINAMURTHY

Boston | +1 (857)-379-6706 | dhakshinamurthy.d@northeastern.edu | Deepana_GitHub | LinkedIn

EDUCATION

Northeastern University, Boston *May 2025*

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

Course work: Data Management System, 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

Cognizant Technology Solutions | Senior Associate | *Chennai, India* *Nov 2017 to June 2023*
[SQL | SSIS (ETL) | PowerBI | Tableau | Python]

- Engaged in Financial, Insurance, Healthcare related technical projects collaborating with Stake holders and cross-functional teams to understand business requirements and providing technical support
- Conducted Data Analysis, Cleaning, Manipulation, and Visualization (EDA) tasks on large datasets using **Python**, resolved **20% of anomalies** during the analysis process, contributing to data quality improvement
- Crafted and optimized reports, dashboards using **PowerBI** and **Tableau** to streamline daily job loading processes and continuously monitor key metrics (**KPI**), resulting in a notable **30%** improvement in operational efficiency
- Showcased proficiency in Query Optimization, migration projects, deploying advanced **SQL,** complex **SSIS ETL** Packages. Achieved a **50%** cost reduction and recognized with promotion, and STAR award
- Acquired mastery in Data Warehousing, Data Integration, ETL pipelines, QA testing and data visualizations
- Proven proficiency in debugging and manipulating data using SQL, and **Excel** functions (Pivot, VLOOKUP), for Data Analysis, Cleanup, and other business process, leading to the successful resolution of **70% of critical defects**

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

- Designed SQL, SSRS reports and SSIS packages based on back-end requirements (.NET web portal)
- Automated a manual data loading process by implementing SSIS packages integrated with SQL procedures in a SQL server agent on daily basis. Successfully increased the **data loading efficiency by 40%**
- Implemented Error Handling in the automation process by triggering emails automatically and notifying relevant teams

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

- Analyzing data in SQL and reports generation using SSRS
- Designed a Data Cleansing process and eliminated irrelevant data using SSIS
- 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 (Recency, Frequency, Monetary) to analyze customer sentiments, **K-means** clustering technique, time series forecasting methods such as **ARIMA** to analyze customer behavior and future trends

EEG Classification [Python] *Sep 2023 to Dec 2023*

- Implemented **Machine Learning** concepts such as Logistic Regression, Recurrent Neural Networks, Convolutional Neural Networks to analyse seizure and non-seizure patients and evaluated model performance using accuracy, precision, 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 Machine Learning Models such as **Linear Regression, Random Forest** and **Decision Tree** to assess their impact on the S&P 500 stock price and forecast S&P stock values