DEEPANA DHAKSHINAMURTHY

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SUMMARY

Data Engineer with 9 years of expertise in database management, normalization, ETL Pipelines, Datawarehousing, cloud platforms (AWS, Azure) and Data Visualizations. Expert in leading performance Tuning, Data Migration and process improvement projects

TECHNICAL SKILLS

- **Programming language**: Python, SQL, HTML, C, C++, UNIX
- **BI Tools:** SSIS, SSRS, PowerBI, Tableau, AWS Glue, Azure Data Factory
- **Python Libraries**: Pandas, Numpy, Matplotlib, Scikit-learn, TensorFlow, SciPy, Seaborn, Plotly, PyTorch,
- **Database Management System:** SQL Server, Oracle, NoSQL, MySQL, AWS RDS, Azure SQL Database
- **Project Management & Tools**: Agile, Jira, Azure Devops,TFS, GitHub, Tortoise, SVN

PROFESSIONAL EXPERIENCE

Colorado Department of Transportation | Data Analyst Intern | *Denver, Colorado*   *June 2024 to Dec 2024*
[**SQL | PowerBI | Python**]

- Designed Paginated PowerBI 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 Database which enhanced data accessibility by 35%

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
- 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**
- 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
- Demonstrated expertise in writing complex **SQL** queries and optimized long running SQL procedures and attained **50% cost reduction** earning interim hikes and promotion
- Accomplished a platform modernization project from Perl to SQL/SSIS platform which completely removed Perl dependency in the job scheduler and achieved **30% cost savings** (received **METLIFE STAR award** and client appreciation)

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

- 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 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
Valliammai Engineering College, Chennai   *April 2014*
Bachelor of Engineering in Electrical and Electronics

ACADEMIC PROJECTS

FITHUB Management System [MySQL | NoSQL (MongoDB)| Python]   *Sep 2023 to Dec 2023*

- Designed ER diagrams, schema and relational model related to all the entities of Fithub data management system
- Developed store procedures, functions, triggers to monitor the User details and daily activities within the system

Customer segmentation [Python]   *Sep 2023 to Dec 2023*

- Performed data cleaning, managed outliers, **Exploratory Data Analysis** (EDA) to comprehend customer behaviors
- Applied **RFM** analysis (Recency, Frequency, Monetary) and **K-means** clustering technique to analyze customer behavior

Crime Dataset Analysis [Python]   *Sep 2023 to Dec 2023*

- Deployed time forecasting methods such as **ARIMA** for predicting future crime trends based upon the historical 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

Mental Health Impact Analysis [Python | Tableau]   *Jan 2024 to April 2024*

- Designed interactive Tableau dashboards and stories by analysing the impact of factors such as occupation, work-related stress, and social media on mental health. Performed EDA analysis to identify correlations between these factors.