Thamaraiselvan Muthukrishnan

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# Professional Profile

Thamaraiselvan has 16+ years’ experience in information technology and is currently performing the role of Digital Solution Specialist at Infosys. He has worked with clients like PwC, Telenor, DirecTV.

# AREAS OF EXPERTISE

* **10+ years** of experience in data engineering/ETL, data analytics, machine learning, and artificial intelligence using Python, SQL, AI & ML platforms (Dataiku, Azure ML, Azure Cognitive Services, and Infosys LEAP) and Microsoft SSIS.
* **5+ years** of experience in analysis, design, development of ASP.NET applications & SharePoint applications using C#.NET, HTML, CSS, JavaScript & SharePoint.
* Worked on projects in waterfall and agile methodology.
* Rich experience in MDM, Services domain.
* Experience in building data pipelines for data loading, data extracts, data cleansing, data transformation, data validation, and reporting.
* Experience in building machine learning models for regression, classification, and clustering tasks using linear regression, random forest, SVM, KNN, and K-Means clustering algorithms.
* Experience in exploratory data analysis, correlation analysis, statistical analysis, time-series data analysis, and model interpretability analysis.
* Experience in building dashboard for data visualization & reporting.
* Experience in requirement analysis, solution architecture, and design. Participate in sprint planning, estimation, and mentor team.
* Experience in working with multiple vendors and geographically distributed teams

# Corporate Experience

* Infosys Limited - From March 2012 to till date
* Ameri Med Tech Pvt Ltd - From Sept 2010 to Jan 2012
* Selvam Softech Pvt. Ltd - From Oct 2006 to Aug 2010

# Skills

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| **Technical Skills** | |
| Data Science, AI & ML | Python, SQL, Dataiku, Azure ML, Infosys LEAP, GCP Vertex AI, SK-Learn, TensorFlow & Keras, PySpark, NumPy, Pandas, Matplotlib, Seaborn, OpenCV, NVIDIA AI, Azure Cognitive Services. |
| ETL & Database | MS SSIS, SQL Server, Oracle DB, MySQL, Azure Data factory , Attunity Replicator. |
| Web Technologies | ASP.NET, SharePoint, HTML, CSS, JavaScript, Python Flask. |
| Cloud Technologies | Azure, Google Cloud, AWS |
| Others | Azure DevOps, ServiceNow, Splunk, Azure App Insight, Fenergo KYC, Kubernetes, Docker |

**Trainings and Certifications:**

* Dataiku Advanced Designer & ML Practitioner certificate
* Infosys Certified Data Science Professional Using Python
* Infosys Certified Data Science Practitioner Using Python
* Azure Data Scientist Associate certificate (DP-100)
* Microsoft Azure Fundamentals certificate (AZ-900)
* Infosys Certified Python Programmer
* Infosys Global Agile Certification
* NVIDIA DLI certificate

# PROJECT DETAILS:

**Project: DTV Sustainment Operations Excellence**

**Client: DTV-USA**

**Role: Data Scientist**

* + It's implemented in the Infosys LEAP platform. Implemented text-based clustering and EASE categorization of incidents.
  + Implemented KPI and SLA metrics computation to get insights on the performance and quality of the service.
  + Implemented Error Correlation Analytics to determine the correlation b/w errors across the applications.
  + Developed dashboards to visualize trends and distribution of the metrics.

**Project: Intelligent Rust Detection Automation**

**Client: Internal/Infosys**

**Role: Data Scientist**

* + It's an AI-based solution for inspecting a factory and production site to identify rust formation on metal objects.
  + Trained an AI model with a custom rust dataset. Implemented model interpretability with the SHAP technique.
  + Implemented an inference pipeline with parallel processing, Azure IoT hub, and Azure stream analytics.
  + Worked on ML Ops activities (training pipeline setup, dataset management, model management, model deployment, etc.).

**Project: MDM System, ETL & Data Analytics**

**Client: PwC-US/UK**

**Role: Technology Lead**

* + Implemented data pipelines with MS SSIS, SQL, and .NET script for data loading, data extracts, data cleansing, data transformation, data validation, and reporting.
  + Implemented data replication pipelines with Attunity Replicator. Worked on hierarchical/graph data analytics with SQL.
  + Involved in requirement analysis, solution architecture, and design. Participated in sprint planning, estimation, and mentored the team.