# Pramod DM
## Senior Data Scientist - ML/DL & GenAI

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Bengaluru, India 📍

dm-pramod.github.io/github_portfolio/ 🖥

linkedin.com/in/pramod-d-m-a5a5a6140 in

Consultant with 5+ years of experience into Data Science and Data Engineering field. Currently working as a Consultant Senior Data Scientist with extensive knowledge in Machine Learning Algorithms, Deep Learning Architectures, GenAI and Mathematical Optimizations (PuLP, Pyomo).

## WORK EXPERIENCE

### Consultant (Senior Data Scientist)
**Deloitte USI**

*12/2023 - Present*                         *Bengaluru, India*

Achievements/Tasks

- Modularized Python Operations Research Repositories built using **PuLp, Pyomo and Gurobi** Libraries to obtain faster outputs using advanced Python OOPs approach for obtaining Optimal Cost Solutions.
- Responsible in handling complete Backend for Python data Science Web Apps connected with Databricks Catalogue, from ETL to response URL's using **Azure Functions** and Flask.
- Built and optimized a custom RAG pipeline using **Lang-Chain**, incorporating advance chunking strategies (recursive, semantic, agentic and document-specific) for efficient context management. Implemented retrieval optimization and evaluated performance using **RAGAS** to ensure high accuracy and relevance across diverse query sets.
- Created multi-language translation script, using LLM models for client-specific data, converting large multilingual datasets having various European language into English using advanced models (**Hugging Face, BERT, Google Translate API**), achieving results very close to GPT 4o.
- Built Custom Agents using Microsoft **Copilot Studio**, integrating **Power Platform, Dynamics 365** and **Azure AI** to get shipment tracking and logistics as a POC for the project.
- Expert in all key **ML** and **Deep learning algorithms**, with practical implementation experience of each and every algo using **Scikit-learn, TensorFlow, or PyTorch** .
- Experienced in migrating Hadoop Py-Spark, Scala-Spark and Python Scripts to Azure with a focus on optimization and appending data to Delta tables ensuring seamless integration and performance with Azure Infra using IntelliJ and DBKS N/bs.

### Data Engineer
**LTIMindtree**

*07/2021 - 09/2023*                         *Bengaluru, India*

Achievements/Tasks

- Py-Spark Developer responsible for delivering Optimized Spark Scripts using Anaconda-Jupyter and Databricks Notebooks.
- Databricks - Hold real-time Experience in advanced Databricks features like Unity CatLog, Delta Table, Identify-Mitigate & Optimize Data Storages, Delta Live Tables, Workflow-DevOps, Notebooks & wheel files, Microsoft Purview etc..
- Experienced in AWS S3 integration on Databricks Platform for easy access of Buckets data and Hands On Experience in AWS services like (EC2, S3, IAM, EBS, AMI, Lambda Functions, Amazon Cloud Formation, CDK, Beanstalk, SSM).

## SKILLS

Python   GenAI [ LangChain, RAG, LLM Models ]

Machine Learning   Deep Learning   PySpark & SQL

Azure & AWS   Git & GitHub   Linux

AI: CoPilot Studio [ Dynamics 365, Power Platform, Azure AI ]

## PERSONAL PROJECTS

**Quantum Leap**
*Ultimate Data Centric Investments & Trading Portfolio Manager*

**Supply Chain Optimization**
*Created a LP Model for with right Data Feeding strategy for efficient functioning of retail products using Python, Pyvis, PuLp libraries.*

**Customer Churn Prediction**
*Predicting Customer Churn using GradientBoosting & ANN Models*

**GenAI - Cold Email Generator**
*Cold email Generation for providing Software Services based on Client Software Requirements using LLAMA3.1, Lang-Chain and ChromaDB.*

## EDUCATION

**B.E in Electrical & Electronics Engineering**
**(08/2014 - 07/2018)**
*CMR Institute of Technology - Bengaluru, India*

**PUC (04/2012 - 04/2014)**
*St.Joseph's Pre-University College, 82.8% Karnataka State Board*

## LANGUAGES

**Python**
*Full Professional Proficiency*

**Scala**
*Professional Working Proficiency*

**Java**
*Professional Working Proficiency*

## CERTIFICATIONS

Microsoft Certified Azure Data Scientist Associate

Databricks Certified Associate developer for Apache Spark

Snowflake Snowpro Core Certification

Advance SQL Certified - HackerRank