

# PRABHAKARAN PALANIMUTHU

• Bloomington, Indiana | [prpalan@iu.edu](mailto:prpalan@iu.edu) ; [prabha07lpm@gmail.com](mailto:prabha07lpm@gmail.com) | [Linked In](#) | [GitHub](#) | (812)391-3906

An analytics engineer with close to three years' experience in enabling realized impact across projects at enterprise scale.

## EDUCATION

### Indiana University Bloomington

Master of Science in Data Science, CGPA: 4.0/4.0

Aug 2025-May 2027

Bloomington, Indiana

### Anna University (SSN College of Engineering)

B.E. in Civil Engineering, CGPA: 8.2/10

2018-2022

Chennai, India

## PROFESSIONAL EXPERIENCE

### Data Analyst - LatentView Analytics Ltd., Chennai, India

Sep 2022 – July 2025

- Developed and managed comprehensive **Power BI** and **Tableau** dashboards from SQL tables to track and analyze marketing campaign performance and paid media trends across various channels including Search Paid, using KPIs and other metrics, which enabled **weekly optimizations** worth **10% of a week's revenue**.
- Generated insights** and analyzed the weekly revenue dip by conducting **root-cause analysis** and executing SQL queries in **Databricks**, uncovering pricing inconsistencies that led to a targeted pricing adjustment and helped stabilize revenue.
- Case Study on Ad Click Through Rate prediction, by establishing an **EDA** and building multiple **classification models** to present the influencing features for increasing **CTR** based on the best-proven model.
- Performed **A/B and Hypothesis testing** to compare the campaigns and tactics through results from statistical tests such as **Z-test and T-test**. Also enabled **20% YoY revenue growth** for a seasonal offer window of the client's product.
- Developed a **SQL pipeline** in **Databricks** using PySpark and Spark SQL to transform raw data through **ETL** (Extract, Transform, Load) into a unified source and used it to build and update Power BI/Tableau dashboards, which provide data-driven insights over the performance of regional and new campaigns and creatives across **Full Funnel and Bottom Funnel**.
- Automated an Excel report** delivery directly through mail to the stakeholder from SQL query in Databricks, automation of several Business-as-Usual reports for auto weekly refresh through **ODBC**, which resulted in saving **2 hours** of time per day.
- Generated weekly reports from **RStudio** and dashboard migration from **Hive to Databricks** for both Power BI and Tableau. Also worked initially in Hive environment before Databricks for all Data operations.

## PROJECTS

**Exploration and Fine Tuning of LLMs as a local ecosystem** - Ongoing research project associated with a faculty from Indiana University's Kelley School of Business.

**Fourier Sine Wave Visualizer** - Browser-based visualizer performs a Fourier Transform on your audio file using Python (Flask + librosa + scipy), then animates the individual sine wave components in sync with playback. [Link](#)

**Predictive Modeling for Powerlifting Performance Using Regression ML techniques** - Predict powerlifting performance metric based on athlete characteristics and training data, with an average prediction error as low as 2.7%. [Link](#)

**Multi-class classification using Softmax, SVM, RF, Ensemble and their evaluation** - In-depth comparison of classification algorithms with hyperparameter tuning on the Dry Bean Dataset, with an average test F-1 score of 93%. [Link](#)

**Dimensionality reduction, clustering and generative modeling of image data** - This project demonstrates comprehensive techniques for analyzing image data through dimensionality reduction (PCA, t-SNE, LLE, UMAP), clustering (K-Means, GMM) and generative modeling (GMM). [Link](#)

**Canal Discharge Prediction Using Time Series Analysis and Neural Networks (UG Project)** - Adopted ML techniques to predict the water discharge in Thevara – Perandoor canal using a historical rainfall dataset. Leveraged models such as SARIMA, as well as neural networks such as LSTM, SANN and FNN. [Link](#)

## CERTIFICATIONS

- NVIDIA Certified Associate Generative AI LLMs, by NVIDIA. [View Certification](#)
- Databricks Certified Data Engineer Associate, by Azure Databricks. [View Certification](#)

October 2024

August 2024

## TECHNICAL SKILLS

**Languages & Tools:** Python, SQL, R, Power BI, Tableau, Adobe Analytics, MS Excel, JupyterLab, VS Code, GitHub, Databricks, Hive, Azure Blob Storage, Colab, Snowflake, Spark SQL, LM Studio, Anything LLM, Ollama.

**Tech & Concepts:** Machine Learning, LLMs, Generative AI, PySpark, Apache Spark, Delta Lake, Lakehouse, Delta Live Tables, Data Pipelines, ETL, Agentic AI, Chatbots, Excel VBA, Data Visualization, Data Analysis, Business Intelligence, Dashboard Development

## ACHIEVEMENTS & EXTRACURRICULAR

- Received the **Encore Award** from **LatentView Analytics Ltd.** For outstanding performance in April-July 2024
- Toastmasters' member and Active participant in **Corporate Social Responsibility (CSR)** activities at LatentView