

PRABHAKARAN PALANIMUTHU

📍 Bloomington, Indiana | prpalan@iu.edu ; 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

Aug 2025-May 2027

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

Bloomington, Indiana

- Coursework – Intro to Stats, Applied ML, Applied Database Technologies, GenAI 101, Fund & App of LLMs, Usable AI

Anna University (SSN College of Engineering)

2018-2022

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

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