

# Narasimha Murthy B G

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 GitHub: <https://github.com/narasimhamurthy122/narasimhamurthy122>

## PROFILE SUMMARY:

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Motivated and hardworking individual with a strong interest in technology and problem-solving. Skilled in Python programming, data analysis, and logical thinking with hands-on practice in solving coding problems. Eager to learn new technologies and apply knowledge in real-world projects. Strong communication skills, adaptability, and a positive attitude towards teamwork and continuous learning.

## TECHNICAL SKILLS:

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- **Programming Languages:** Python, SQL, Data Science, AI, Machine Learning, GenAI
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib
- **Machine Learning:** Scikit-learn
- **Databases:** MySQL, Flask
- **Tools & Platforms:** Jupyter Notebook, GitHub, RAG, Lang chain, Hugging Face, Postman, Flask API

## EDUCATION:

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Bachelor of Technology (B.E) – Electronics and Communication Engineering

R L Jalappa Institute of Technology

Visvesvaraya Technological University (VTU), Karnataka

Graduation Year: 2025 | CGPA: 8.5/10

## Internship:

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1. Data with Machine Learning – IBM Skills

Build, Bangalore

October 2024 – November 2024

Logistic Regression Model – Car Purchase

Prediction

- Built and trained a logistic Regression model using python and Scikit-Learn to classify customer purchase decision based on age and estimated salary.
- Performed data preprocessing including feature scaling, train-test split, and applied logistic regression for binary classification.
- Achieved model evaluation through confusion matrix and accuracy score to measure performance.
- Visualized training and test set results using Matplotlib, showcasing decision boundaries and model predictions.

2. Data Analyst – TATA Group, Karnataka

June 2025 – August 2025

- Completed a job simulation involving AI-powered data analytics and strategy development for the Financial Services team at Tata iQ.
- Conducted exploratory data analysis (EDA) using GenAI tools to assess data quality, identify risk indicators, and structure insights for predictive modelling.
- Proposed and justified an initial no-code predictive modelling framework to assess customer delinquency risk, leveraging GenAI for structured model logic and evaluation criteria.
- Designed an AI-driven collections strategy leveraging agentic AI and automation, incorporating ethical AI principles, regulatory compliance, and scalable implementation frameworks.

## **PROJECTS:**

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### **1. Financial Services Data & AI Strategy**

- Conducted exploratory data analysis (EDA) using GenAI tools to assess data quality, identify risk indicators, and structure insights for predictive modelling.
- Proposed and justified an initial no-code predictive modelling framework to assess customer delinquency risk, leveraging GenAI for structured model logic and evaluation criteria.
- Designed an AI-driven collections strategy leveraging agentic AI and automation, incorporating ethical AI principles, regulatory compliance, and scalable implementation frameworks.

### **2. AI-Based Share Market Analysis Using TCS Annual Report**

- Developed a GenAI-powered financial analysis tool to assess investment viability in TCS shares using its annual report.
- Implemented a Retrieval-Augmented Generation (RAG) pipeline with LangChain for document chunking and stored embeddings in FAISS Vector DB.
- Processed the TCS annual report (PDF) to extract relevant financial insights by querying the vector store.
- Combined retrieved chunks with user queries and passed them to GPT-4o-mini for context-aware analysis.
- The system effectively answered investment-related questions, supporting informed decision-making.
- Technologies Used: Python, Lang Chain, FAISS, GPT-4o-mini, PDF parsing, RAG architecture, Share Market Fundamentals

