

TOM ROY THOMAS

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Education

Kristu Jayanti College, Autonomous

Bangalore, India

Master of Science, Data Science, CGPA: 7.0/10

Aug 2023-May 2025

East Point College of Higher Education

Bangalore, India

Bachelor of Computer Application, CGPA: 8.63/10

Aug2019- Nov 2022

Skill Summary

- Libraries & Frameworks:** Pandas | Numpy | Scikit-Learn | Matplotlib | Deep Learning | Machine Learning | LLM Generative-AI
- Tools:** Power BI | Excel | PowerPoint
- Language:** Python | My
- Platforms:** Pycharm | Jupyter Notebook | Visual Studio Code
- Soft Skills:** Rapport Building | People Management

Professional Experience

Data Science Intern | CognoRise InfoTech|

Oct 23-Nov 23

- Built Machine Learning Model and achieving 95 %accuracy across real world datasets.
- Addressed class imbalance, achieving 90%+ precision and a 12% boost in F1-score

Data Science Intern |Luminar Technolab |

Mar 23-Dec 23

- Developed YOLO-based real-time object detection model using OpenCV, increasing accuracy to 90%+.
- Optimized ETL pipelines with pandas and Numpy ,reducing data processing time by 20%.
- Designed predictive analytics models,improving operational efficiency by 20%.

Academic Projects

Real-Time Object Detection System Using YOLO

Sep2024-Oct 2024

- Engineered a high-accuracy object detection system with YOLO,OpenCV,and deep learning models.
- Attained 95% accuracy using advanced image augmentation and feature engineering techniques.

Chat Bot for Student Support (Ongoing)

Jan25

- Developed an LLM Model to support students.
- Build with ollama and Langchain .
- Deployed using streamlit.

PDF Documentation Question System (Ongoing)

Jan 25

- Preprocessed and labeled 500+ text samples, improving entity detection accuracy by 15%.
- Build a Documentation System with LLM and Deploy using Streamlit .

Certificates

Python Project for Data Science (IBM) |

Aug 2024

- Completed a Python project for data science, focusing on data analysis and machine learning.
- Implemented data preprocessing, visualization, and model building using pandas, NumPY, and scikit-learn.

Data Analysis for Data Science (IBM) |

June 2024

- Completed a certification in data analysis and visualization using Power BI.
- Created interactive dashboards and reports with DAX and Power Query

Databases and SQL for Data Science with Python (IBM) |

June 2023

- Earned a certification in databases and SQL for data science with Python.
- Executed SQL queries for data extraction, manipulation, and analysis using Python.

Paper Presentation

Presented a research paper titled “Fire Detection using YOLO” at the IEEE National Conference,focusing on Real-time detection using advanced computer vision techniques.

Languages

English| Tamil |Malayalam