

JOMY MARY MATHEW

Mumbai, Maharashtra | Phone number: 9136069972 | Email ID: [jomymarymathew@gmail.com](mailto:jomymarymathew@gmail.com)

Postgraduate in Data Science & Big Data Analytics with hands-on experience in AI/ML, Data Analysis, and Visualization, driven to deliver impactful, data-driven insights and solutions.

EDUCATION

**M.Sc. DATA SCIENCE & BIG DATA ANALYTICS - CGPA: 9.97** *August 2023 – July 2025*  
B.K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan

**B.Sc. INFORMATION TECHNOLOGY – CGPA: 9.97** *August 2020 – April 2023*  
B.K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan

SKILLS

**Programming Languages:** Python, SQL  
**Data Analysis & Visualization:** Pandas, NumPy, Tableau, Microsoft Excel, Matplotlib, Seaborn  
**Machine Learning & Deep Learning:** Scikit-Learn, TensorFlow, Keras, Classification, Clustering, Neural Networks  
**AI/ML & Generative AI Tools:** LangChain, HuggingFace Transformers, RAG, LLMs, Vector Databases  
**Soft Skills:** Problem-Solving, Analytical Thinking, Communication skills, Team Work, Presentation Skills

INTERNSHIPS

**Artificial Intelligence Developer Extern, Smart Bridge Pvt. LTD - Smart Internz** *Remote | March 2024 – May 2024*

- Collaborated with a team of 3 in developing an automated **Eye disease detection system using deep learning**, implementing pre-processing techniques like **normalization, data augmentation, and resizing**. Built 4 models (CNN, Xception, Inception V3, VGG19), with the CNN model achieving 85% accuracy, and deployed the solution via a Flask-based web application.

PROJECTS

Verdict AI – AI-Powered Legal Intelligence Platform

**Technologies Used:** Python, NLP, RAG, LLMs (TinyLlama, Mistral), LangChain, FAISS, Hugging Face Transformers, Flask

- Design and deployed a complete multi-module legal AI platform with: **LLM-powered chatbot** trained on IPC and Indian laws using LangChain. **Semantic case recommendation engine** using FAISS and vector embeddings. **Legal document summarizer** and multilingual translator with HuggingFace transformers. Integrated Retrieval-Augmented Generation (RAG) for accurate and explainable query responses. Deployed via Flask interface on HuggingFace Spaces.

Transformer Based Semantic Book Recommendation System

**Technologies Used:** Python, HuggingFace Sentence-Transformers, LangChain, ChromaDB, Gradio, Pandas, Hugging Face Spaces

- Designed an interactive Semantic Book Recommendation on Hugging Face Spaces. Utilizes transformer-based sentence embeddings (MiniLM, MPNet) with Chroma vector database for efficient semantic search. Features a Gradio-based UI with embedding model selection, category and emotion filters, and dynamic top-K recommendation tuning.

Fraud Detection Using Machine Learning

- Analyzed **6M+ financial transactions** with only 0.13% fraud cases, performing **data cleaning, feature engineering, and EDA** to uncover fraud patterns. Applied **SMOTE** to handle class imbalance and built multiple ML models (Logistic Regression, Random Forest, XGBoost, LightGBM), evaluated using **Precision, Recall, F1, and ROC-AUC**.

CERTIFICATIONS

- [GOOGLE Data Analytics Professional Certification \(Coursera\)](#)
- IBM:** [Enterprise Data Science in Practise](#) | [Getting started with Enterprise grade – AI](#)
- L&T EduTech:** Machine Learning & Deep Learning

ACHIEVEMENTS

- Ranked 1st in TY B.Sc. Information Technology at B.K. Birla College, Kalyan with a CGPA of 9.97/10.
- Actively participated in and successfully organized various intercollegiate quizzes and hackathons at both undergraduate and postgraduate levels.