

# JOYCE MERIN ABRAHAM

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## ABOUT ME

I am a dedicated enthusiast of AI/ML and Data Analytics, with a strong passion for blending technology with creativity. With a solid foundation in Mathematics and Computer Science, my goal is to leverage my skills and knowledge to make meaningful contributions to these domains, while exploring the limitless possibilities of AI. I am committed to continuous learning and actively seek opportunities to grow professionally, contributing effectively to projects along the way

## EDUCATION

- **PG Diploma in Artificial Intelligence | 2024 (Completed)**  
Center for Development and Advanced Computing (CDAC), Noida  
Final Grade - Awaited
- **Masters in Computer Application | 2021 - 2023 (Completed)**  
Pondicherry Central University, Puducherry.  
Final CGPA - 9.08
- **Bachelors of Science in Mathematics | 2018 - 2021 (Completed)**  
Wilson College, under Mumbai University  
Final CGPA - 8.68
- **HSC | 2018 (Completed)**  
Vidya Vikasini Junior College, under Maharashtra State Board  
Final Percentage - 84.77 %
- **SSC | 2016 (Completed)**  
Holy Family Convent High School, under Maharashtra State Board  
Final Percentage - 90.80 %

## RELEVANT PROJECTS

### Chatbot Music Recommendation System using Sentiment Analysis

🔗 <https://github.com/joyce0803/Chatbot-Music-Recommendation-System>

- This project aims to make an interactive chatbot that one can talk and have casual conversations with.
- The chatbot will analyze the user's sentiment and mood based on the conversations and then it will generate a personalized playlist of songs for the user.

### Chat with your PDF

🔗 <https://github.com/joyce0803/Chat-with-your-PDF-chatbot>


- Chat-with-Your-PDF-Chatbot is a project that leverages an advanced open-source large language model and Generative AI to answer questions related to the content of PDF documents.
- This project is particularly useful for scenarios where information retrieval from PDFs is required through natural language queries.

### Satellite Image Segmentation

🔗 <https://github.com/joyce0803/Satellite-Image-Segmentation>


- This project presents the implementation of the research paper titled "Detecting Buildings and Non-Buildings from Satellite Images Using U-Net".
- The implementation of this paper is motivated by the inherent challenges in manually extracting buildings from satellite images, which is both laborious and time-consuming.

## Query Your CSV

 <https://github.com/joyce0803/Query-Your-CSV>

- Query-Your-CSV is an application that allows users to interact with the dataset using natural language and Generative AI, making data exploration and analysis more accessible and efficient.
- The application can analyze any dataset and identify meaningful patterns and information.
- This app also allows interacting with SQL Database to store, retrieve, edit, delete using natural language.

## Generate MCQs from PDFs

 <https://github.com/joyce0803/Generate-MCQs-from-PDFs>

- Generate MCQs and Chat with PDFs is an innovative application that leverages LLM's to automate the process of generating Multiple Choice Questions (MCQs) from PDF documents.
- Powered by Prompt Engineering using LangChain, this application extracts key information and concepts from PDFs and formulates relevant MCQs, saving time and effort for educators and trainers.

 [Java Server-Client Chat Application](#)

 [Regression with XGBoost and MLib Pipelines](#)

 [Chrun Analysis - using Pyspark, MLFlow, AutoML and Databricks](#)

 [ML Flow - Diabetes Project](#)

 [Fine-Tune Llama2 LLM with custom dataset using LoRA and QLoRA techniques](#)

 [RAG-LLM-System-using-Llama2-and-LlamaIndex](#)

 [Investment Banker RAG Chatbot using Intel's Neural Chat LLM](#)

### KEY SKILLS

- |                               |                  |                     |
|-------------------------------|------------------|---------------------|
| ✓ Machine Learning            | ✓ Data Analytics | ✓ Databricks        |
| ✓ Computer Vision             | ✓ Deep Learning  | ✓ Fine-tuning LLM's |
| ✓ Natural Language Processing | ✓ PySpark        |                     |

### TECHNICAL SKILLS

- |                             |                            |
|-----------------------------|----------------------------|
| ✓ Python - Streamlit, Flask | ✓ Jenkins                  |
| ✓ Docker                    | ✓ SQL / MongoDB/ Cassandra |
| ✓ Node js                   | ✓ Java                     |

### LANGUAGES

- English ( Reading, Writing, Speech)
- Hindi ( Reading, Writing, Speech)
- Marathi ( Reading, Writing)
- Malayalam ( Speech)

### CERTIFICATIONS

- The Joy of Computing using Python ( from NPTEL )
- Foundations of R Software ( from NPTEL)
- Generative AI with Large Language Models (from Coursera)