

# Britto Sam Jose J

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## SUMMARY

A motivated AI Data Science student with a strong foundation in machine learning, full-stack development, and cloud technologies. Eager to apply practical experience in building and deploying intelligent, data-driven applications to solve real-world problems.

## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C#, Dart, JavaScript, PHP
- **Web Technologies:** React, HTML, CSS/Tailwind, Flask, REST APIs
- **Database Systems:** SQL, MongoDB
- **Data Science & Machine Learning:** NumPy, Pandas, Scikit-learn, OpenCV, NLTK, Data Processing, Data Visualization
- **Cloud Platforms:** Azure, AWS
- **DevOps & Version Control:** Git, GitHub, Docker
- **AI & Specialized Areas:** ChatGPT, GitHub Copilot, LangChain, Hugging Face Transformers, OpenAI API, Large Language Models (LLMs), Prompt Engineering, Retrieval-Augmented Generation (RAG)
- **Other Tools & Technologies:** Android Studio, Figma

## PROJECTS

### Architecture: AI Design Framework

Full-Stack AI Application

Aug 2025 – Present

Python, PyTorch, Flask, Hugging Face

- Developed a self-contained AI using a local LLM and GANs to generate and validate architectural designs.
- Trained models for multiple styles (Brutalism, Art Deco) and deployed the system as a Flask web app.

### Resume Ranker AI

AI Project

Oct 2025

Python, Flask, OpenAI LLM, ClinicalBERT

- Developed an **AI-powered resume ranking system** that analyzes and ranks resumes based on contextual similarity with job descriptions using **Large Language Models (LLMs)**.
- Implemented **text extraction** from PDF/DOCX files via pdfplumber and python-docx, with recruiter-defined **weightage-based scoring logic**.
- Integrated **ClinicalBERT model** for advanced semantic understanding and **automated report generation** on resume-JD alignment and skill gaps.
- Built a **Flask-based web app** with an interactive dashboard for ranking visualization, keyword highlighting, and downloadable result reports.
- Enhanced recruitment efficiency by automating resume evaluation with AI-driven semantic matching and intelligent report insights.

### Predicting Hospital Readmissions

ML Project

Sep 2025

Python, scikit-learn, Random Forest

- Built ML pipeline on **25K+ patient records** to predict 30-day readmission risk.
- Used **SMOTEENN** for imbalance handling and feature engineering, achieving **74.7% accuracy**.
- Developed app with CSV/DB batch prediction and **Clinical BERT**-based recommendations.
- Integrated Azure SQL Database for data management and deployed the application on cloud infrastructure for scalability and accessibility.

### News Summarization and TTS App

NLP Project

Mar-Apr 2025

Python, Streamlit, Hugging Face

- Developed a full-stack application for company-specific news summarization, sentiment analysis, and Hindi TTS.
- Applied TextRank, a hybrid VADER-DistilBERT model, and gTTS for robust text processing and audio generation.
- Containerized with Docker and deployed on Hugging Face Spaces for public access and demonstration.
- LIVE DEMO | GitHub

### Predictive Crime Analysis

Machine Learning Project

Mar 2024 – Jun 2024

Python, Scikit-learn, Seaborn, Flask

- Engineered a predictive model using data analytics and ML to forecast crime patterns in Karnataka, achieving 85% accuracy.
- Implemented ARIMA time-series forecasting and created visual tools including heat maps and geographic clusters.

## EXPERIENCE

### AI & ML Intern

Impactree.ai

Dec 2025 – Present

Chennai, India

- Contributed to the development of **Caetis**, a newly evolving AI-powered product, by designing and implementing machine

learning solutions.

- Worked extensively with **Large Language Models (LLMs)** and **Retrieval-Augmented Generation (RAG)** to enable intelligent text and knowledge-based responses.
- Integrated AI models with **APIs and cloud services** to support scalable and production-ready applications.
- Automated model workflows, testing, and fine-tuning processes to enhance performance and reliability.

#### Gen AI - Intern

*Hexalith Solutions*

June 2025 - Present  
Chennai, India

- Worked on building and improving AI models for generating text and content.
- Assisted in integrating AI features into applications to improve user experience.
- Participated in testing and fine-tuning AI models for better performance.

#### Internship Trainee

*Intelizign*

Jul 2024 (2 weeks)  
Chennai, India

- Gained foundational knowledge in Product Lifecycle Management (PLM) concepts and internal corporate team structures.

#### AI Intern

*Plant Green Inertia Pvt Ltd*

Jun 2024 – Jul 2024  
Chennai, India

- Architected a music-based profile matching algorithm to power a dating application's core feature.
- Spearheaded the conversion of a client website into a cross-platform mobile app using React Native.

#### Project Intern

*Campus Coder*

Nov 2023 – Dec 2023  
(Remote)

- Constructed and trained an image classification model using CNN on Kaggle datasets, achieving over 90% accuracy.

## EDUCATION

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#### St. Joseph's College of Engineering

B.Tech, AI & Data Science (CGPA: 7.56 / 10.0)

Expected May 2026  
Chennai, India

#### Sri SaiRam Polytechnic College

Diploma in Computer Science & Engineering (83%)

Completed 2023  
Chennai, India

#### Holy Prince Matric Hr. Sec. School

10th Grade (77.8%)

Completed 2020  
Chennai, India

## ACHIEVEMENTS

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- Selected for **Tamil Nadu Startup Program** and awarded a **Smartcard** in 2025 at college.
- Secured **Top 2 position** out of 200+ teams in the Karnataka Police Datathon 2024.
- Winner of the **Game Development Competition** at the Mohamed Sathak A.J. College of Engineering Technical Symposium in 2023.

## CERTIFICATIONS

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- Networking Basics – Cisco
- Introduction to Generative AI – Google Cloud
- Google Analytics Certification - Google