

Britto Sam Jose J

✉ brittosamjosej@gmail.com | 📞 +91-8939479296
linkedin.com/in/brittosamjosej | github.com/brittosamjose2004 | Portfolio

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

June 2025 - Present

Hexalith Solutions

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

Jul 2024 (2 weeks)

Intelizign

Chennai, India

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

AI Intern

Jun 2024 – Jul 2024

Plant Green Inertia Pvt Ltd

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

Nov 2023 – Dec 2023

Campus Coder

(Remote)

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

EDUCATION

St. Joseph's College of Engineering

Expected May 2026

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

Chennai, India

Sri SaiRam Polytechnic College

Completed 2023

Diploma in Computer Science & Engineering (83%)

Chennai, India

Holy Prince Matric Hr. Sec. School

Completed 2020

10th Grade (77.8%)

Chennai, India

ACHIEVEMENTS

- 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

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