📄 Sakhi-bot – FAQ / Portfolio Overview

A chatbot powered by Santhana Krishnan V

👤 Personal Information

- **Name**: Santhana Krishnan V

- **Email**: santhanakrishnan9704@gmail.com

- **Portfolio**: https://sakhiv.netlify.app

- **Phone / LinkedIn**: +91 93602 15471

🎓 Education

KCG College of Technology, Chennai, India
B.E. in Computer Science and Engineering
GPA: 7.85 / 10
Nov 2021 – May 2025

- **Concentrations**: Machine Learning & Cloud Computing

- **Coursework Highlights**:

    - Data Structures & Algorithms

    - Object-Oriented Programming

    - Software Design

    - Computer Organization

    - Systems & Networks

    - Design of Algorithms

    - Database Systems

    - Statistics

- ○ Theory of Computation

💼 Work Experience

Data Analyst – ICSR, IIT Madras
Chennai, India — Aug 2025 – Present (Full-time)

- Analyzing and reporting institutional data using Power BI and SQL.

- Building scalable data-driven systems for internal departments.

- Collaborating with AI/ML teams to support research and automation.

Data Science Intern – ICSR, IIT Madras
May 2025 – Jul 2025

- Built Power BI dashboards from Excel, APIs, and SQL Server sources.

- Developed a RAG-based QA chatbot using LangChain and ChromaDB.

- Created admin dashboard with user access levels and optimized DAX queries.

- **Tools**: Power BI, SQL Server, Python, Excel, LangChain, ChromaDB

Machine Learning Intern – Cognifyz Technologies
Remote — Jul 2024 – Aug 2024

- Performed data cleaning, EDA, and feature engineering on geo-based restaurant datasets.

- Built and evaluated ML models including linear regression and random forest.

- **Tools**: Python, Pandas, NumPy, Scikit-learn, Matplotlib

💡 Key Projects

- **Deep CNN for Aerial Ship Detection**
  Classified aerial images using a deep CNN model for high-accuracy ship detection.

- **Heart Disease Prediction System**
  ML app predicting heart disease risk using logistic regression and decision trees.

- **Autism Detection using ANN**
  Neural network model to support early diagnosis of Autism Spectrum Disorder in toddlers.

- **RAG-based Chatbot with Gemini**
  Flask-based chatbot powered by Gemini + LangChain to answer questions from PDF/CSV data.

- **Missing Children Detection App**
  Face detection mobile app built with Flutter to help identify and track missing children.

- **ASDM Web-based Prediction System**
  Website for ML-based academic prediction with Socket.IO real-time chatbot interface.

🤝 Involvement & Mentoring

App Development Club – KCG College of Technology

- Mentored junior students in web/mobile development.

- Trained peers in Git, debugging, UI/UX practices, and collaborative projects.

- Facilitated peer-learning sessions and project reviews.

🏆 Hackathon Achievements

- **Top 50 – Cyber Hackathon 2023**, VIT Chennai
  Selected by Tamil Nadu Police in a state-level cybersecurity challenge.

- **Finalist – Smart India Hackathon 2024**
  Reached final round in a prestigious national innovation challenge.

💬 Skills & Interests

- **Languages**: Python, JavaScript, Java

- **Frameworks & Tools**: Flask, Streamlit, React.js, TensorFlow, OpenCV, Scikit-learn, Power BI, Excel, LangChain

- **Technologies**: MongoDB, MySQL, AWS (EC2, S3), Docker, Git, ChromaDB, Socket.IO, Flutter

- **Current Learning**:

    - AWS Cloud Certification (Practitioner & Architect Track)

    - AI Engineering: Prompt Engineering, LangChain, RAG, GenAI

    - Building scalable AI pipelines and ML-driven web tools

- **Other Interests**:

    - ML Engineering, Software Engineering, Web Development

    - Full-stack AI tools, chatbot development, automation

    - GitHub: github.com/Santhanakrishnan2004/ML-Models

✨ About Sakhi-bot

"This resume powers **Sakhi-bot** 🤖, an interactive FAQ chatbot built using Gemini 1.5, LangChain, FAISS, and Flask — trained entirely on this content PDF."
 Try it: https://sakhiv.netlify.app

Github id = https://github.com/Santhanakrishnan2004
Linkedin id = https://www.linkedin.com/in/santhanakrishnan-v/