

Varun Sasikumar

✉ varunkofficial03@gmail.com ☎ +91 8137052733 📍 Thrissur, Kerala, India 🌐 <https://github.com/Varun-K34>

🌐 [linkedin.com/in/varun-k03](https://www.linkedin.com/in/varun-k03)

PROFILE

A dedicated **software developer** with experience in **mobile application development**, **data analysis**, and **AI-driven solutions**. Proficient in building full-stack applications with a focus on clean architecture, real-time communication, and seamless integration of backend services. Currently pursuing a **B.Sc. in Data Science and Programming** at **IIT Madras**, sharpening my skills in **machine learning**, **data science**, and **cloud technologies**. Skilled at combining **backend frameworks** and **APIs** with user-centric frontend development to deliver impactful solutions.

EDUCATION

Indian Institute of Technology Madras, *Bachelor of Science - B.Sc* 2022 – present | Tamil Nadu

APJ Abdul Kalam Technological University, 2020 – 2024 | Kerala
Bachelor of Technology - B.Tech

Percentage : 76

Central Board of Secondary Education - CBSE, 2017 – 2019 | Kerala
Senior Secondary Education

Percentage : 78

SKILLS

Python | C Programming | C++ | HTML | Flutter | Java | SQL | Git | MS Office | Figma

PROFESSIONAL EXPERIENCE

EMPIRE AE IT SERVICE, *Flutter Developer (Freelancer)* Jul 2024 – Oct 2024 | Kochi

- Designed and developed user-friendly mobile interfaces using **Flutter**, based on design prototypes in **Figma**.
- Integrated **REST APIs** to enable backend communication with a **Django-powered** server.
- Implemented secure payment functionality using **Razorpay**, ensuring robust transaction handling.
- Set up **Agora RTC** and **RTM** for real-time audio calling features within the application.
- Managed the interaction between front-end and back-end systems, ensuring seamless data flow and efficient app performance.
- Project: **CallMatch**

Flutter Developer (Freelancer) Nov 2023 – May 2024

- Developed the user interface of a mobile application using **Flutter** and integrated it with **Firebase** for user authentication and chat functionality.
- Implemented an **AI-powered assistant** using a **BERT model**, enabling natural language interactions for users.
- Developed **secure payment handling** with **Razorpay** integration, ensuring smooth financial transactions.
- Utilized **Flask** for seamless communication between the mobile front-end and the AI model running on the backend.

PROJECTS

Biolx - Biomedical Entity Recognition System

- Tech Stack:** Flutter (front-end), Flask (back-end), BERT & CRF (NLP algorithms), Git (version control)
- Developed a mobile app to extract and recognize biomedical entities from complex English texts.
- Utilized **BERT** and **CRF** models for **NLP-based** biomedical entity recognition, delivering precise and meaningful data.

- Achieved **precision averaging 70.30%, recall averaging 84.23%, and an F1-score averaging 76.23%**, demonstrating the system's strong performance in accurately recognizing biomedical entities.
- Integrated **Flutter** with **Flask** for real-time data processing, ensuring accurate recognition and streamlined data flow between the front and back ends.

Sten_X - Text Summarization App

- **Tech Stack:** Flutter (front-end), Python (NLP), Flask (API development).
- Designed a mobile app for summarizing large volumes of text using **NLP algorithms in Python**.
- Developed a **Flask API** to connect the Flutter-based front-end to Python-based back-end NLP models.
- Ensured a responsive and user-centric UI using **Flutter**, integrated with Python's **NLP libraries** for text summarization.

InspiroQuote - Quote Generator

- **Tech Stack:** HTML/CSS (front-end), Python (back-end), SQLite (Database)
- Built a dynamic web application to generate inspirational quotes over visually appealing backgrounds.
- Integrated Python for backend logic, ensuring smooth quote generation and dynamic content display.

CERTIFICATES

Foundational Level in Programming and Data Science IIT Madras	Getting Started with AWS Machine Learning Amazon Web Services (AWS)	Network Engineering - Routing & Switching LIVEWIRE
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PUBLICATIONS

Biomedical Named Entity Recognition System,
International Research Journal of Modernization in Engineering Technology and Science (IRJMETS)

AWARDS

Best Outgoing Student, *Received at Rajadhani Institute of Science and Technology*