

# VIVEK V

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## Career Objective

Computer Science and Data Science undergraduate with hands-on experience in building AI chatbots, full-stack web, and mobile applications. Interested in Artificial Intelligence, RAG-based systems, and Flutter development, with practical knowledge of REST APIs, databases, and Git. A quick learner and problem solver seeking an entry-level software or AI developer role to apply technical skills and continue learning.

## EXPERIENCE

### Apsis Solutions — Mobile Application Development (Internship)

Feb 2026-Present

- Developed Flutter apps including a home-automation control app and a real-time weather app using REST APIs.
- Connected mobile frontend with backend services and created basic Django API endpoints; handled API responses, state management, and error handling.
- Resolved runtime issues, improved app performance, and collaborated using Git version control.

## PROJECTS

### AI POWERED STUDENT LEARNING PLATFORM USING RAG WITH LANGCHAIN

Live Demo 🔄

- Developed a full-stack academic chatbot that answers queries from uploaded documents using semantic search.
- Implemented document ingestion pipeline (text extraction, chunking, embeddings) for vector-based retrieval.
- Added authentication, chat history storage, and real-time messaging.
- Designed modular REST backend and integrated AWS services for scalable document Q&A.

**Tech Stack:** LangChain, Gemini API, Socket.IO

### IOT HOME AUTOMATION APPLICATION

- Built a Flutter home automation app with room-wise control of lights, fans, plugs, and switches; implemented scenes mode for one-tap preset configurations and user permission flows for owner/guest device access.
- Integrated Firebase Realtime Database and Firebase Auth for live multi-user device sync, achieving ~90% command accuracy over Wi-Fi and Good Connectivity with BLE with sub-500ms latency.
- Enabled dual-connectivity (BLE + Wi-Fi) with automatic switching based on signal strength, time-based scheduling rules per device,

**Tech Stack:** Flutter, Dart, Firebase Realtime Database, Firebase Auth, BLE (Bluetooth Low Energy), Wi-Fi, REST APIs, Provider

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Dart(Basic), C

**Backend & Databases:** Flask, MySQL, MongoDB Compass, Docker (Basic), Postman

**AI/ML:** Retrieval-Augmented Generation (RAG), LangChain, Prompt Engineering

**Tools:** Git, GitHub, AWS S3, Socket.IO, API Integration

**Frontend & Mobile:** Flutter, Web Development

## EDUCATION

### ATME College of Engineering, Mysuru

2022-26

Bachelor of Engineering in CSE (Data Science)- 8.37 CGPA

### JSS PU College, SJCE Campus, Mysuru

2020-22

PCMB-91.17%

## ADDITIONAL INFORMATION

• **Python Foundations Certification — Infosys Springboard, Data Engineering Training — IVIS Lab**

• **Published research paper "A Review on RAG-Based Student Assistant Chatbot using LangChain" in EPRA International Journal of Research and Development (IJRD), Vol.10, Issue 8, Aug 2025**

**DOI:** <https://doi.org/10.36713/epra23698>

• **Languages Known:** English (Professional), Kannada (Native), Hindi (Limited)