

# Vivek V

7892409872 | vivekvvivekv70@gmail.com | github.com/Vivek7892 | linkedin.com/in/vivek-v-7892

## Personal Profile

Pursuing 7th semester of B.E. in Computer Science and Data Science with a solid foundation in core programming concepts. Familiar with C, Python, SQL, NoSQL, and basics of Data Structures and Algorithms (DSA). Experienced with Power BI and Tableau and exposure to Generative AI (GenAI) tools. Eager to apply academic knowledge to real-world projects, with a passion for continuous learning and innovation.

## Technical Skills

- Programming Languages: C, Python (Basics)
- Web Development: HTML, CSS, JavaScript
- Data Structures & Algorithms: Basics of DSA
- AI & ML: Introductory Machine Learning concepts
- Tools & Technologies: Git, GitHub, Cloud Deployment (Learning)
- Data Visualization: Power BI, Tableau
- Soft Skills: Communication, Problem-Solving, Teamwork

## Projects

### AI-Powered Student Learning Platform using RAG and LangChain

- Developed an AI-powered learning platform supporting intelligent chat, quiz generation and personalized study planning.
- Implemented Retrieval-Augmented Generation using LangChain and Gemini API for context-aware responses from uploaded documents.
- Built using MERN Stack, integrated AWS S3 cloud storage and real-time communication via Socket.IO.
- Designed an admin dashboard for educators to upload notes, manage quizzes and monitor student progress.

*Tech Stack: MERN Stack, LangChain, Gemini API, AWS S3, Socket.IO*

### Detection of DDoS Attacks using Clustering and Machine Learning

- Built an intrusion detection system to identify abnormal network traffic patterns.
- Used Scikit-learn and Pandas for preprocessing and model training.
- Visualized attack detection results using Matplotlib.

*Tech Stack: Python, Scikit-learn, Pandas, Matplotlib*

## Education

### Bachelor of Engineering in CSE (Data Science)

2022–2026

ATME College of Engineering, Mysuru

Affiliated to Visvesvaraya Technological University, Belagavi

CGPA: 8.37

### Pre-University Course (PUC)

2020–2022

JSS PU College, SJCE Campus, Mysuru

Percentage: 91.17%

### SSLC

2019–2020

Sri Kalabhayaveshwara High School, Kanakapura

Percentage: 94.72%

## Certifications and Achievements

- Python Foundations Certification – Infosys Springboard
- Data Engineering – IVIS Lab
- Participated in CODE-HUNT 2025 – Vidyavardhaka College of Engineering

- Published 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>

### **Additional Information**

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- Languages: Kannada, English
- Interests: Cloud Technologies, Data Science

### **Declaration**

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I hereby declare that the above information is true to the best of my knowledge and belief.

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