

RESUME



Yadunandan S

Computer Science Engineering

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Objective:

A Computer Science undergraduate with a strong interest in Data Science and Web Development, equipped with skills in data analysis, MERN stack and machine learning. Experienced in working with datasets to derive actionable insights and build predictive models. Proficient in Python, C++ and SQL. Curious and detail oriented, with a passion for turning complex data into meaningful stories and practical solutions.

Education:

Bachelors in Computer Science and Engineering | 2022-2026

Kumaraguru College of Technology – CGPA 7.25(up to 7th sem)

HSC | 2020 – 2022

Kids Club Higher Secondary School – 96.83%

SSLC | 2020

St. Joseph Higher Secondary School – 79.2%

Soft Skills:

- Communication
- Adaptability
- Teamwork
- Critical Thinking
- Problem Solving
- Leadership
- Creativity & Design

Technical Skills:

- Python, C++
- Data Science
- Pandas, Numpy, Scikit learn, seaborn Frameworks
- MySQL, MONGODB
- MERN Stack
- SDLC
- Data Structure and Algorithms



Projects:

Passive CAPTCHA System for Bot Detection

Developed a **machine learning-driven CAPTCHA system** to differentiate legitimate users from bots by analyzing interaction metrics such as typing speed, latency, and click precision. Incorporated a behavior-based scoring model (**TensorFlow, Scikit-learn**) with secondary verification through Drag & Drop CAPTCHA and honeypot traps. Backend implemented using Node.js and MongoDB for real-time detection and adaptive learning.

PDF Chatbot with RAG Pipeline

Objective: Developed an end-to-end Retrieval-Augmented Generation (RAG) system to extract and query information from multiple unstructured PDF documents.

Tech Stack: Python, LangChain, Ollama (Gemma2:2b), ChromaDB, HuggingFace Embeddings, PyPDFLoader.

Impact: Engineered a solution capable of processing up to 10 documents simultaneously using semantic chunking and vector storage. Deployed a **Streamlit** UI to provide concise, context-aware responses, demonstrating a real-world application of **GenAI** for enterprise data.

Chatify – Real-Time Chat Application—React, Tailwind CSS, DaisyUI, Zustand, Node.js, Express.js, MongoDB, Socket.io, JWT, Cloudinary, Resend, Arcjet, Render Built an end-to-end real-time chat application using the MERN stack, designed with a strong focus on performance, security, and scalability. The application implements custom JWT based authentication, real-time messaging using Socket.io, and online/offline presence tracking. It supports image uploads via Cloudinary, sends welcome emails on user signup using Resend, and includes API rate-limiting powered by Arcjet for enhanced security. The frontend is styled with Tailwind CSS and DaisyUI, while Zustand manages global state efficiently. The application follows a clean REST API architecture and is deployed using Render, making it free-tier friendly and production-ready.

Certification:

- **Data Mining Foundations and Practice Specialization** (University of Colorado Boulder) (Coursera)
- **Data Visualization with Power BI** (Great Learning)
- **AWS Academy Cloud Foundation – AWS**
- **Data Storytelling** (Coursera)

Personal Interest

Listening to Podcasts
Reading Books & Articles
Sports & Fitness
Chess

Languages Known

- English
- Hindi
- Telugu
- Tamil