

RHUSHYA KC

GitHub | LinkedIn | Rhushya

Location: Bengaluru

Email: rhushya2004@gmail.com | Mobile: +91 7019292150

TECHNICAL SKILLS

- **AI|ML|DL:** PyTorch, Transformers, Genrative Ai , ai agents , MCP, finetuning , RL
- **Python Libraries:** FastAPI, Flask, Pandas, numpy , Poetry, Langchain, LlamaIndex, Rest
- **Web Frameworks:** React.js, Next.js, Express, Node.js, Tailwind, shadcn
- **Cloud:** Docker, Kubernetes, Google Cloud , AWS
- **Databases:** MongoDB, MySQL, Supabase , FAISS, Qdrant, ChromaDb
- **Languages:** HTML, CSS, JavaScript, Python, C/C++, SQL, JAVA
- **Open Source Contribution**
- **Communication**
- **Leadership**



EXPERIENCE

Radisys

Bengaluru

Intern

- Gained in-depth knowledge of 4G and 5G network architectures and their operational frameworks.
- Worked hands-on with network protocols, including TCP and UDP, enhancing understanding of data transmission.
- Explored and implemented core concepts in network protocol design and deployment.

Signalz

Bengaluru

Intern

- Contributed to full stack development, enhancing both frontend and backend functionalities.
- Improved UI rendering for a smoother and more responsive user experience.
- Developed and shipped reusable internal components as APIs and npm packages.
- Enhanced authentication mechanisms, increasing security and user trust.
- Streamlined user interactions to make the platform more intuitive and convenient.

Achievement

Residency

- Had been selected to the residency program , I've have been experimenting with applications for an OS-level AI agent system (like GitHub Copilot for operating systems but way better), startup/residency cohorts (selected among ~600 people globally)

PROJECTS

Foodiespot Agent

Python, Pydantic , Groq API, Llama-3/Llama-3.1-8B, uuid

- Designed and implemented a conversational AI agent for restaurant reservations **using custom tool-calling logic without external frameworks (e.g., LangChain).**
- Developed a purpose-built workflow where the LLM (Llama-3 via Groq API) interprets user queries and, when required, outputs structured JSON tool calls.
- Enabled **direct invocation of backend Python functions for tasks such as restaurant search, availability checks, and reservation booking**, operating on in-memory data models.
- Built all tool schemas, argument validation, and execution mapping from scratch, allowing precise control over agent behavior and easy extensibility for business-specific requirements.

Automation

Google Apps Script, JavaScript, Gmail API, Google Drive API

- Automates email-based invoice workflows using Google Apps Script and JavaScript, integrating directly with Gmail and Google Drive APIs.
- Extracts and organizes key business data from invoice attachments (PDFs, images) with zero manual data entry.
- Provides a serverless, extensible solution ideal for small businesses and accounting teams to streamline bookkeeping and reduce errors.

Citizen Database Management System

Python, MYsql,pymysql,streamlit

- Designed and implemented a comprehensive Citizen Database Management System that streamlined government record-keeping processes and improved data retrieval efficiency by 40%.
- Developed secure user authentication and role-based access control, ensuring sensitive citizen data remained protected while allowing appropriate administrative access levels.
- Engineered robust search functionality with advanced filtering capabilities, enabling government officials to quickly locate and update citizen records across multiple criteria.
- Created an intuitive dashboard interface that visualized demographic data trends and provided real-time statistics to support data-driven policy decisions and resource

Kludmate

Python, Ollama, langchain, pstuil

- Kludmate is a Python-based observability assistant with a Streamlit web interface, enabling users to query system telemetry (CPU, memory, disk) using natural language for SQL.
- It efficiently stores metrics in a DuckDB database and uses Retrieval-Augmented Generation (RAG) powered by a local Llama2 model via Ollama for insightful, real-time analysis.
- Supports concurrent access, allowing seamless monitoring and natural language summaries for system data.

Legal ai

Python, langchain, ChromaDB, groq beautiful soup, google colab

- Automated Legal Data Scraping & Storage: Developed a robust pipeline to scrape diverse legal documents and case data from multiple online sources, ensuring comprehensive and structured data collection.
- Efficient Data Management with Chroma: Leveraged Chroma as a vector database to store, index, and efficiently retrieve high-dimensional legal data, enabling scalable search and semantic similarity operations.
- Intelligent Question Answering with GROQ: Integrated advanced GROQ-based natural language processing to allow users to query the legal database and receive accurate, context-aware answers in real time.

Finalit

Sarvam api, groq, pydub, streamlit

- Multilingual and multimodal and, voice & text AI assistant for loan eligibility, application guidance, and financial tips.
- Uses Sarvam AI exclusively for translation, transliteration, speech-to-text, and text-to-speech, ensuring responses match user language and script.
- Easy Streamlit setup, local JSON storage for privacy, supports 10 Indian languages and 30-second audio processing.

Emostream

Kafka, spark, python

- Built a real-time emotion tracking system using Apache Kafka and Spark with 2-second processing windows.
- Developed a Flask-based web application with WebSocket integration for real-time emoji visualization.
- Designed a scalable data pipeline with smart aggregation, optimizing high-volume emoji streams.
- Implemented a microservices architecture with Kafka producer-consumer and multithreading for scalability.

Learning

- Mainly my learning is Through YouTube, X, LinkedIn, Blog, completely self taught, mainly learnt through observation

Publications

Automated BCS Classification using Machine learning : An Explainable AI Approach for BCS Classification System

- The main purpose of this automation of BCS Classification for pharmaceutical, as BCS classification is an intense process, we make it ease by developing ML model, with rules to predict the BCS class with just log p and log s values and smiles data, this would give an edge and pharmacy and medical research about the solubility and permeability with more accuracy and precision

Activity

- Debsoc (Debate Club) -Member
- Teacher Assistant -Machine Learning
- Teacher Assistant -DBMS

EDUCATION

• Degree/Course	• University / Board	• Year	• GPA/PERCENTAGE
• B.Tech (COMPUTER SCIENCE AND ENGINEERING)	• University(PES,Banglore)	• (2022-present)	• 8.52(CGPA)
• Higher Secondary (PCMC)	• State(Kumarans, Bangalore)	• 2020-2022	• 88% (92%PCM)
• School	• ICSE(Baldwin, Bangalore)	• 2008-2020	• 94 %

Languages

- English
- Hindi
- Kannada

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