NARESH KUMAR LAHAJAL

Bengaluru, India|Mobile: +91 7975657928

LinkedIn : Naresh Kumar Lahajal , GitHub : nareshis21 . E-mail: nareshlahajal@gmail.com

EDUCATION

Bachelor of Engineering in Information Science and Engineering   **2025**

BMS College of Engineering Bangalore, INDIA, Bangalore

CGPA - 7.91

Diploma In Computer Science   **2018 - 2021**

APS polytechnic, BANGALORE

Percentage: 89.5

EXPERIENCE

GENPACT - Gen AI Intern   Feb,2024 - July,2024

Generative AI :

- Tasked with creating **Generative AI** powered projects, using **Langchain** and various **LLM's (**openai , mistral**)** .
- Developed an **Multimodal RAG** using **open-source** frameworks.
- Developed **AI Invoice Discrepancy detector** which handles **multiple files** concurrently with **multimodal** input handling

Skydive Program :

- Acquired professional training in **Data analysis** and **visualization** through intensive training.
- Created an interactive **Power BI** Dashboard for an **POC** with an complex open source data.

SKILLS

- **Languages -** Python,C++, Java, C, MySQL, Shell.
- **Frameworks -** Flask, Langchain.
- **Mobile Application** Development- Android Studio.
- **Developer Tools -** GitHub, Hugging face, Postman,VS Code, PyCharm**.**
- Ability to learn quickly, adapt to new environments, and work as a team.
- Proficiency in meticulous observation and application of design principles.
- Expertise in time management, crafting innovative solutions, and venturing into new tech domains.

PROJECT

Airis |*Python , Deepgram , Groq , Tavily , Streamlit .*

- **AI-powered app** capable of **interpreting visual inputs** and engaging in **conversational Q&A** in **real-time** featuring **emotion detection**, image descriptions, and **web-enhanced information retrieval.**
- **Llama3.2 90B** for visual insights, **Mistral 8xB** for contextual conversations, and **Tavily for web-integrated** question answering.
- Designed AIris to be adaptable for applications in **education, professional training, and user interaction** scenarios.
- **Repo**- **nareshis21/Airis ,** Demo - **Here.**

Virtal Tutor | *Python, Langchain, Hugging face,Groq,Streamlit.*

- Designed a **AI RAG-based chat application** enabling **seamless user interaction through text, speech, and OCR** for image inputs.
- Achieved a consistent response time o**f 1.7 seconds** for both **text and speech queries**, ensuring a **responsive user experience**.
- Leveraged advanced **AI** techniques to **integrate retrieval-augmented generation (RAG)** for accurate and dynamic responses across **multiple modalities**. **Repo**- **Nexas/virtual-tutor** , Demo – **Here.**

Insight Fusion chat(*Semantic Retrieval with OpenCLIP:***)|** *Python, Langchain, Hugging face,Groq,openclip,Streamlit .*

- Developed a **AI RAG-based chat** application that **retrieves relevant image**s by leveraging **OpenCLIP embeddings** for semantics.
- Integrated **Mistral LLM** for dynamic and **context-aware textual conversations**, enhancing the chat application's intelligence.
- Built an intuitive user interface using **Streamlit,** enabling seamless user interaction and **visualization of retrieved conten**t.
- **Repo**- **Nexas/multimodal** , Demo – **Here,**

ADDITIONAL EDUCATION & CERTIFICATIONS

- **Machine Learning , Data Sciene and Generative AI with Python** - Udemy
- **Knowledge Graph for Beginners** - Udemy
- **NLP - Natural Language Processing** - Udemy.
- **DevOps, CI/CD(Continuous Integration/Delivery** - Udemy.