

Hyperledger - AI-FAQ LLM ChatBot GUI implementation and prototype deployment

Cover Letter - Linux Foundation Program 2024

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Introduction

I'm Silky Modi, a pre-final year undergrad majoring in Computer Science Engineering. As a Computer Science student, I'm deeply passionate about technology and its potential to connect with like-minded people from around the world. My passion for technology and eagerness to explore new areas in this field have been with me since my freshman days. I always love to learn and grow in public, discussing the trends in new emerging technologies with community people. My mission is to uncover the strength that lies within the community. I believe communities help to foster growth, learning, and collaboration, and I have been fortunate enough to participate in various community events from my 1st year of engineering and this enriches my experience as a learner and mentor.

If I were to summarise my learning, I'm skilled in C++ and Python programming languages, along with web development frameworks, machine learning, and AI. I've built various projects using these technologies and have participated in and organised multiple hackathons like Wittyhacks 3.0, Wittyhacks 4.0, and HackHive to get familiarised with the hackathon culture. As an open Source contributor in various programs like GSSoC, SSoC, and Hacktoberfest has allowed me to learn and inspire my fellows to explore the world of open source and contribute to meaningful projects. Additionally, I'm always striving to enhance my abilities by working on new projects and participating in mentorship programs

I am grateful for the opportunities I have had to volunteer at conferences such as Google Devfest Indore and to participate in many community events. These experiences have allowed me to connect with like-minded individuals and gain insights into the latest technological advancements in my field.

I am privileged to be a mentee at Codess.cafe, a mentorship program tailored for women actively engaged in the field of technology and deeply committed to advancing their careers. As a Postman Student Leader, I have been able to share my knowledge and skills with learners through various workshops and sessions. Also, I am grateful for the opportunity to judge the hackathon.

I also write blogs on Medium and have won two writing contests on my campus.

How did you find out about our mentorship program?

I first became aware of the LFX mentorship program through a post on LinkedIn. As a software developer, I'm always on the lookout for new opportunities to expand my knowledge and skills in the industry. So, when I saw a post from someone in my network who had been selected for the program, I was intrigued and wanted to learn more.

I contacted my connection to ask about their experience with the program and what they had gained from it. They were enthusiastic in their response and spoke highly of the valuable knowledge and skills they had acquired during their time as a mentee. They also shared that the program provided them with a unique opportunity to connect with other professionals in their field and develop meaningful relationships with mentors and peers.

After my conversation with my connection, I decided to research the LFX mentorship program further. I visited the program's official website and found that it was designed to provide aspiring developers with the opportunity to work on real-world projects alongside experienced mentors. The program's focus on open-source projects also appealed to me, as I'm passionate about contributing to the community and expanding my understanding of collaborative development practices.

Encouraged by what I had learned, I decided to apply to become a mentee myself. I felt that the program aligned with my goals as a developer and offered a unique opportunity to learn and grow in my field. I'm excited to see where this experience takes me and how it will contribute to my professional growth in the future.

Why are you interested in this program?

As a pre final-year Computer Science Engineering student and someone who is deeply passionate about technology, I believe that the Hyperledger Foundation's open-source platforms have tremendous potential to revolutionise the way we think about AI, chatbot implementation, and its use cases.

However, I also understand that the success of any technology project depends on how innovatively I can implement Artificial Intelligence in real life problems. This is why I am particularly interested in the LFX Mentorship program's project of Hyperledger Labs AI-FAQ LLM ChatBot GUI implementation and its prototype deployment.

Furthermore, being a part of this program will give me an opportunity to learn from experienced mentors and work alongside like-minded individuals who share my passion for technology and community building. Through this project, I hope to contribute my skills and knowledge to help establish best practices for technical documentation in the Hyperledger community and help foster growth and collaboration within the larger open-source community.

What experience and knowledge/skills do you have that are applicable to this program?

Experience	Description
Mentee at CodessCafe	This mentorship program helps to get familiarised with open source and contribute to open source programs. During this mentorship program I contributed to many prestigious open source programs like Hacktoberfest, GirlScripSummer of
	Code, Social Summer of code.

	<ul style="list-style-type: none"> - Received Distinguished Fellow Award for putting up extra awards as a Tech Fellow - Organized and facilitated various professional development activities including coffee chats, workshops, and a virtual speaker series. - Led peer engagement initiatives, including social events, and discussions on tech-related topics.
Organised 3+ hackathons with participants from 10+ states and 300+ participants	<ul style="list-style-type: none"> - I have had the privilege to organise 3+ all India hackathons, this provides me an opportunity to connect with many students who are doing excellence in different fields of technology. - This help me to built hackathon culture in my region - Provided me leadership experience and team work experience. - Get a chance to interact with 300+ teams from various domains of technology.
Postman Student Leader	<ul style="list-style-type: none"> - I was selected as Postman Student Leader in my region, Indore, from among 1000+ of applications. - As a Postman Student Leader in my region, I spread the word about APIs and their potential. - I get a chance to take various workshops and sessions and give hands-on training to students. - Get a chance to judge an API track in a hackathon.

Open Source Experiences

Experience	Description
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<p>Open Source Contributor at various prestigious program like Social Summer of Code, Hacktoberfest, GirlScript Summer of Code</p>	<ul style="list-style-type: none"> - Created issues and raised PRs by giving proper description. - Achieved 271 global rank on GSSoC leaderboard. - Won Swags from Hacktoberfest because my 10 PRs got merged. <p>GitHub Gist of my Open Source Contributions: https://gist.github.com/silky-modi22/46e4f646c401f49b47892616370d43a4</p>
<p>Judge for DevSprint 1.0 Hackathon</p>	<ul style="list-style-type: none"> - Got a chance to judge more than 50 teams' projects on different technologies like IOT, Blockchain, App Development, Web Development.
<p>Contributions in other tech communities</p>	<p>I'm a part of various local and global tech communities like Association of computing</p>
	<p>and machinery, Google Developer Student Club, DataCode Community, IEEE chapter of Medi-Caps University.</p>

Side Projects

<p>Video Transcribe Summarizer</p>	<p>Video Transcribe Summarizer</p>	<p>I developed an application utilising Generative AI and Python, Streamlit to streamline the video-watching experience. By simply inputting the video URL, users receive a succinct summary in bullet points, accompanied by a thumbnail for visual reference.</p>
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ATS System	ATS System	I've developed an innovative Application Tracking System (ATS) utilising Generative AI and Python, aimed at streamlining the job application process. Users upload their resumes and input job descriptions, and the ATS utilises Generative AI to analyse both, offering suggestions on job fit and skill improvement.
Gemini Health App	Health App	<p>In Health App users can upload images of their meals, and the app utilises Generative AI to analyse each food item, providing accurate calorie breakdowns. Additionally, the integrated chatbot allows users to ask questions and receive expert advice on various health topics.</p> <p>This Health App is designed by using Google AI Studio, GenAI, Python, and Streamlit.</p>
krishimitra	krishimitra	Krishimitra, a revolutionary full-stack LLM application developed with OpenAI, Flask, React, and Pinecone. Designed specifically for farmers, Krishimitra provides crop suggestions directly to their mobile devices, even in areas with limited internet or no internet connectivity.
HelpGeared	HelpGeared	This platform aims to ensure that vulnerable individuals have access to essential resources such as food, funds, and clothes, and that no one is left behind.

		Tech Used: HTML, CSS, JavaScript, Node.js, APIs
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		Through this platform, users can easily find and donate to NGOs and orphanages that serve these communities, providing them with the essential resources they need to survive and thrive.
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Achievements

- Organise and participate in more than 3+ hackathons with more than 350+ participants from all over India.
- Core Council member of ACM club
- Selected as Postman Student Leader from among 1000+ of applications.
- DataCode Core Community member, a global student learning community.
- My team project krishimitra won the track prize of using vonage API in HackThis Fall hackathon.

What do you hope to get out of this mentorship experience?

As someone who is deeply passionate about technology and community building, I am excited about the opportunity to participate in the LFX Mentorship program and work on the project of LLM chatbot. Through this experience, I hope to gain valuable skills and knowledge that will help me grow as a developer.

I am particularly excited about the opportunity to work with experienced mentors and like-minded individuals who share my passion for technology and community building. I hope to learn from their experiences, gain new perspectives, and build meaningful connections that will serve me well throughout my career.

Additionally, I hope to develop a deep understanding of AI and gain practical experience in creating industrial projects. I believe that these skills will be invaluable to me as I continue to explore the world of open-source technology and seek to contribute to meaningful projects that have a positive impact on society.

Overall, I am excited about the opportunity to participate in this program and hope to make the most of this experience by learning as much as I can, contributing meaningfully to the project, and building connections that will serve me well throughout my career.

Time Commitment for LFX

During the LFX program, I am able to dedicate around 30 hours per week, which aligns with my vacation time. However, I am also prepared to be flexible and increase my hours to 40+ per week if necessary to keep the project on schedule.

In the event of any other commitments or unforeseen circumstances that might affect my ability to meet a deadline or attend a weekly meeting, I will proactively inform my mentor beforehand and provide an estimated timeframe for making up for the lost time.

My primary aim is to complete the proposed project well before the deadline, preferably 1.5 to 2 weeks ahead of schedule. Achieving this target will enable me to tackle any remaining tasks, and give priority to any issues that require more time and debugging. Additionally, it will allow me to allocate sufficient time to document my work thoroughly.

Why me?

I believe I am a suitable candidate for this project because I possess the necessary skills and experiences that align with the project's objectives. As a computer science engineering student, I have a knowledge of AI and building the chatbots, and I am familiar with

open-source documentation tools and templates such as Github. I have also been recognized for my involvement in community initiatives, which demonstrates my ability to collaborate effectively and communicate ideas clearly. Moreover, my experience as a Postman Student Leader and my role as a judge and mentor at DevSprint and HackHive allowed me to guide learners in understanding complex technical concepts in a simple way and inspire them to contribute to meaningful projects.

The success of a project is often reliant on the level of dedication and resilience demonstrated by its contributors, and I believe I possess both qualities in abundance.