

To me, public service is a dedication to the betterment of society, a commitment to address critical issues, and a responsibility to contribute positively to the community at large. It's about selflessly leveraging one's skills, experiences, and resources to drive positive change and promote the welfare of others.

My background and experiences have significantly shaped my perspective on public service. As a Computer Science major, I've always believed in the power of technology to transform lives and bridge gaps. Through my work as a STEAM educator and mentor, I've witnessed the profound impact of education and how it can empower individuals to overcome challenges and innovate. Through roles as a STEAM educator and mentor at educational companies and organizations like Karkhana and Tufts University, I've witnessed the transformative power of education. This experience instilled in me a profound belief in the potential of education as a vehicle for social change.

Through hands-on experiences, creative storytelling, and interdisciplinary approaches, I have strived to empower students to embrace STEAM subjects and develop critical problem-solving skills. Whether it's building smart motors, creating learning kits, or organizing workshops that bridge the gap between education and innovation, my journey has been guided by a commitment to inspiring the next generation of thinkers and creators. I feel proud that I've contributed a little to making learning hands-on and fun for more than 500 students so far.

Participating in the CIF Fellowship program aligns perfectly with my vision of public service. It also offers an incredible platform for innovation. I'm dedicated to bringing technology to underserved communities, and I believe this fellowship will equip me with the resources, mentorship, and opportunities to turn this vision into a reality. So, through this fellowship program I look forward to forging new connections which go beyond friendship and come together for a global change.

I was working on a web development project as a web developer in collaboration with web designers for a local art business client, and the project had a strict deadline. However, I found myself lacking detailed information about the client's specific design preferences and functional requirements for their website.

To address this situation, I decided to take a proactive approach. I reached out to the client to schedule a meeting where we could discuss their expectations in-depth. I prepared a list of questions and potential design elements to guide our discussion. During the meeting, I actively listened to the client's ideas and preferences, and I asked clarifying questions when necessary. This open and collaborative dialogue allowed me to gain a clearer understanding of their vision.

With the insights gained from the client meeting, I proceeded to work on the project. I implemented a flexible and modular design that could be easily adjusted based on their feedback. I also utilized my problem-solving skills to create a functional prototype that aligned with their general requirements.

This experience taught me the importance of effective communication, adaptability, and proactive problem-solving when faced with incomplete information. It reinforced my belief that collaboration and a willingness to seek clarity are key to successfully overcoming challenges in any task.

The project I'd like to highlight is my "Earthquake Aftershock Prediction Model." The primary goal of this project was to leverage data analysis and machine learning techniques to predict whether an earthquake would result in aftershocks or not. I conducted this project independently as part of my data science and machine learning exploration.

While I didn't work with a formal team on this project, I did seek advice and guidance from professors and peers when needed. Collaboratively, we discussed various aspects of the project, such as feature selection and model evaluation techniques.

My contribution to the project included data collection, cleaning, and processing. I also performed exploratory data analysis to identify key patterns in the earthquake data. Utilizing Python and machine learning libraries, I built and fine-tuned a predictive model using SVM and Logistic Regression algorithms. Additionally, I implemented K-fold cross-validation for model assessment.

The outcome of the project was a machine learning model that could predict whether an earthquake was likely to produce aftershocks with approximately 60% accuracy. This model could be invaluable in assessing earthquake impact and helping communities prepare for potential aftershocks, contributing to public safety.

I chose to highlight this project because it demonstrates my proficiency in data science, machine learning, and problem-solving. Additionally, it showcases my ability to work independently, define project goals, and utilize technical skills to address complex, real-world challenges. This project holds personal significance as it combines my passion for technology with a desire to make a positive impact on society by enhancing earthquake preparedness and response.