In less fortunate neighborhoods, education is argued to be one of the best ways to improve people's way of life and allow them economic mobility. So, improving the quality of these schools is of the utmost importance.

One of the main drawbacks of schools in these less fortunate neighborhoods is that students can be disengaged or have a lack of motivation to learn which makes them difficult to teach. This correlates to teachers having a lack of motivation as well, and a lack of passion for their student's success.

Our goal is to create an environment that encourages learning, and in order to move closer to that we are focused on improving the quality of teacher training, which is relatively outdated.

We hope to develop a more efficient way to train teachers to properly handle the varying types of situations that they can find themselves in. And in order to do this, we will create a virtual training platform. In this platform, teachers are placed in hypothetical situations where they can interact with an Artificial Intelligence, which in this case would be a student.

The computer generated students will communicate to the teacher, and the teacher will have to make an appropriate decision, training them to deal with students in the real world.

I'm a member of the interface group of my project under Professor Mubassir Kapadia.
My role in this project is to work on generating the student responses which are based on what the teacher says to the virtual machine.

So looking forward, we hope to make significant progress on creating this training platform, and we plan to use it to improve the livelihoods of those in less fortunate neighborhoods.