

Human Computer Interaction (In English)

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AI-Powered Tools for Content Generation and Analysis: Kyron

Hey everyone, I'm Aman, a research assistant working under Dr. Rajiv Ratan Shah. My core work revolves around audio AI, NLP AI, and web development. So today I'll show you a very interesting tool, which is a perfect example of HCI. So let's get started. So the tool name is Kyron.

So Kyron is a very innovative platform that combines human insight with AI technology. The human can actually interact with the machine using the camera, microphones, and the keyboards and mouse. So what interaction? By interaction, what I mean, there are several proctors which are proctoring the candidates while giving the exams. So this is the exam platform where the candidate is giving the exam.

The exam can be any kind of thing, like it's an exam, semester exam, placement exam, and so on. So one side, the candidate is being joined by opening and giving the permission of the cameras and sharing the screen. On the second end, a proctor is being joined by using his laptop or computer. So the proctor can able to see the candidate, what the candidate is doing, the head movement is there or not, what candidate is typing, is there any background noise or not, and so on and so forth. Similarly, the Kyron interview platform.

what interview is specifically mean, the virtual interview. One side the interviewer has been joined, the other side is there is candidate, the interviewer will ask the questions, the question will be directly pop up to the screen, the candidate will be able to give the answers, read the answer and then they solve that. The interviewer can see the expression of the candidate and can ask the question directly. So these are the key features of Kyron, that is blind evaluation, where the given answer by the candidate like given to the evaluators blindly that the candidate doesn't know who checked that and the checkers doesn't know that whose uh exam they are being checked like are checking advanced automated scoring what advanced automated scoring mean s like how Kyron have implemented automatic speech and textual form scoring for the candidates suppose a candidate have given the exam uh the exam has been for three hours He has given answers based on whatever the questions were. Now, who's going to check that? The

main responsibility for checking the exam is on the TAs and the teachers, the professors.

But to reduce their efforts, Kyron have developed this particular feature that is advanced automated scoring. You just have to upload the given answer and it will give you the scoring based on the context and as well as the grammatical mistake and so on. Similarly, the current have already implemented the advanced plagiarism check. So in the era of AI everywhere, how to make sure that the integrity of a specific given answer is true or not? Whether the candidate is copying the answer from somewhere or is it writing it from its own will? How to check that? How we will check that? So Kyron have implemented the advanced plagiarism check where The Kyron is basically specifically recording the keystrokes and the mouse movement of the candidates and it is predicting at a very great accuracy that the given answer is copied from somewhere or it is self-written. So this is how the Kyiron have implemented HCI and LLM together.

So I'll just show you how the screens look like. This is the proctor site where the candidate have just joined and the proctor can see what is happening on the screen. It can see and actually tell whether the candidate is writing the code or not. It can listen to the background music, what is happening. It can see the screen of the candidate, whether the head movement is there or not.

Proctor can actually flag the candidate. from the cheating flag or whatever. So as you can see the proctor have marked it as a head moment. Proctor can leave a comment that this candidate is particularly cheating that or using the phone, someone is dictating the answer and whatever the situation is. The proctor can actually broadcast a message such as Hey, can you please do that? Or can you please tell someone stop screaming? Can you close the window? And the exam has been postponed by five minutes and so on and so forth.

It can actually create a connection between the proctor and the student. So they can directly talk and they can text each other. If the candidate is having any kind of problem, it can ask Proctor directly by actually writing the question or it can speak. So the Proctor can listen to it. So this is the Proctor side while the candidate is giving.

So this is the interview panel. One side, on the left side, the interviewer has been joined. On the right side, the candidate have joined. So the interviewer can see the screen, can actually listen what is happening, can import the question, and ask any kind of thing. The interviewer can ask that on the platform itself to upload the CV.

resume of the candidate so that the candidate can upload that and the interviewer can check it while the he or she is solving the problem so as you can see the interviewer have imported a particular type of question and right now he is implementing a coding type of

question so this is the current type of question Whatever the candidate is writing on his side or her side, it's being recorded and it's shown to the interviewer's side. The interviewer can then and there score the candidate. So this is how a connection is being set up between the proctor, the interviewer and the candidates. As you can see, if the interviewer have given a very creative kind of question while in the interview, so the candidate can use the whiteboard screen to explain their ideas, what he or she have understood from that particular question. So this is how our interview panel is being implemented in the Kyron. Thank you.