Interview Chatbot

Project for

Cohere hackathon

Pampushka Team

Chat goes here...

Pampushka Understander
What is Internet?

just now

User
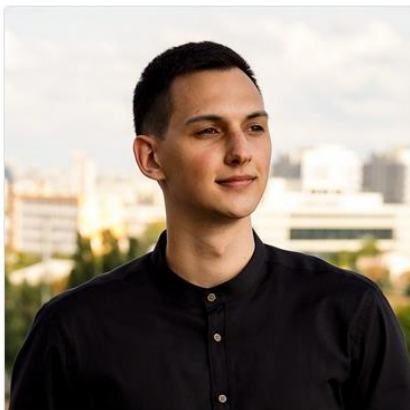Communication

just now

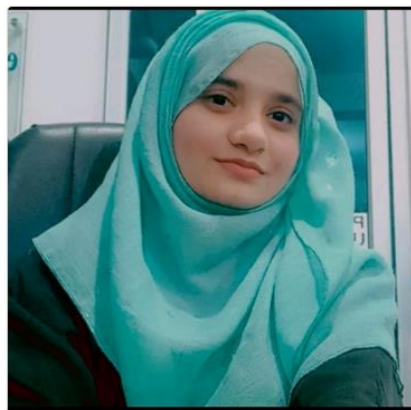Pampushka Understander
Answer quality is "average"

just now

Type your message...

Our Team

Nazarii Savorona

A highly accomplished, skilled and knowledgeable computer science student with extensive knowledge of programming and computer applications. Looking for an opportunity in the field of information technology as computer programmer in a renowned organization.

Iqra Akhtar

Expert computer scientist with diverse work experience, including programming, software development, and consulting. Extensive knowledge of software development cycle as well as proficiency in several programming languages.

Anton Balykov

I am a 4th year undergraduate student at Faculty of Computer Science and Cybernetics of Taras Shevchenko National University of Kyiv. I am a Software Engineer, passionate about AI, keen on programming in Python, GoLang, Java, C++programming languages. Got a chance to try out several frameworks, namely Spring for Java, Ruby on Rails for Ruby. Also familiar with SQL, MatLab, Maple, Git, UnrealEngine. Looking forward to learning more about AI and Machine Learning.

Ruslan Volchetskyi

Software Engineer, 4th year student at Faculty of Computer Science and Cybernetics of Taras Shevchenko National University of Kyiv with a great set of skills like Python, Java, Go, C++, knowledge of SQL, Git, UnrealEngine and vast potential for software development and computer science. I'm really fond of AI, game development and problem solving as well as collaborative work and team communication. As an astute student, I'm looking for different opportunities in various fields of IT.

Problem

High demand for different roles in companies.

Need for many human employees to assess answers and talk to candidates.
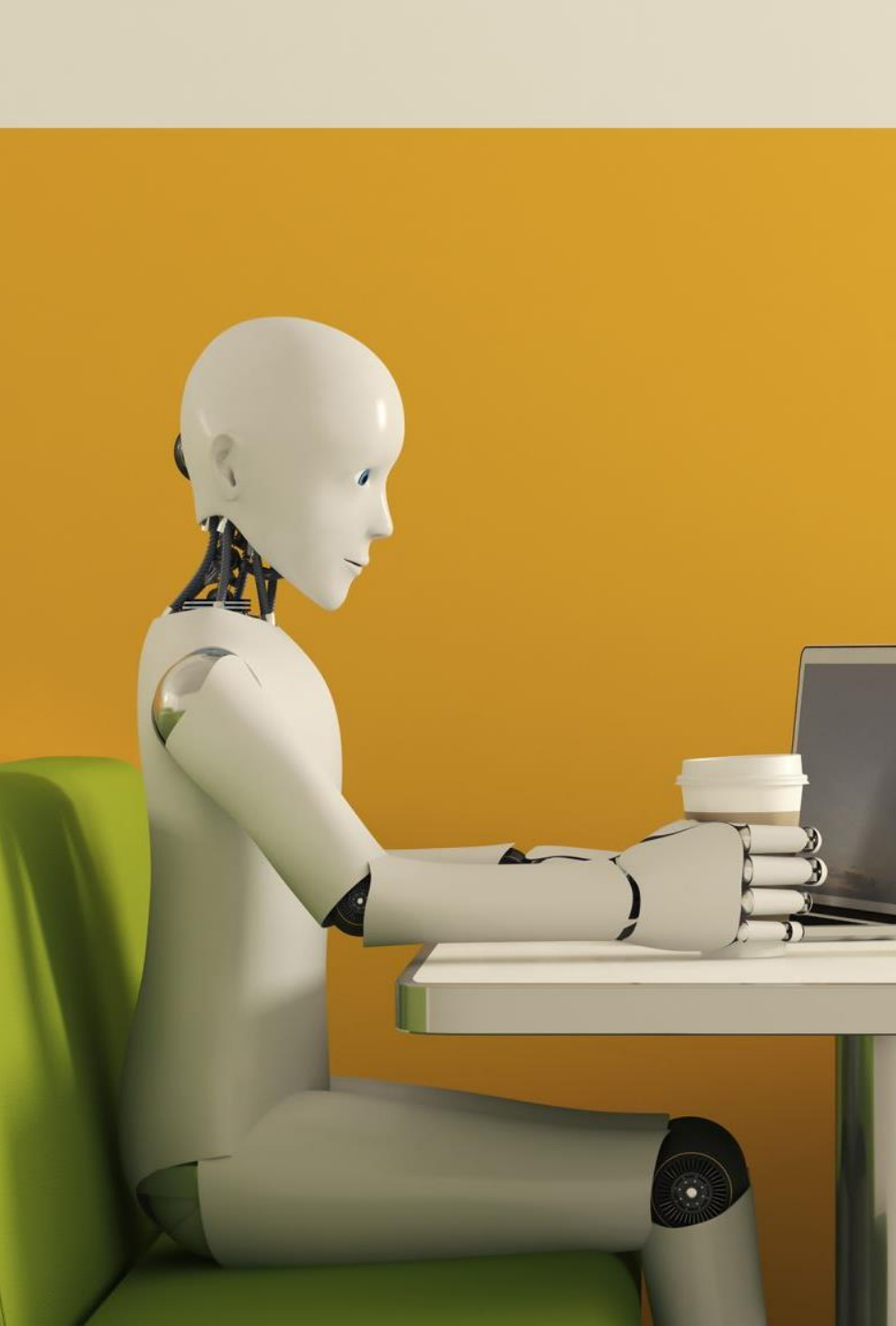
Project description

The core idea of our project is to create an assistant for interviewing purposes which can be utilized by companies that are hiring employees

This bot is capable of automation of interview stages in which respondent is to answer questions with firm correct and wrong responses.

The model is trained on the provided examples.

Communication with candidate

- Bot will communicate with interview respondents via web-application.

- This application will be like chatbots used on sites to help students and other scholars write academic papers.

- Bot sends question to the candidate and a person input answer in the provided field.

- Afterwards model estimates the quality of provided answer and bot informs respondent about it.

Training

- Our model utilizes https://api.cohere.ai/classify endpoint.

- The set of questions available to choose from is in the database and predefined (for this version of project).

- The training sets of answers are also in the database with links to their respective questions.

- There must be at least some number (to be estimated) of answers per quality per question for the model to be well-trained.

Answer qualities

- Qualities of respondent answer are:
  - Good (respondent replied correctly)
  - Average (something is missing or not completely correct)
  - Bad (wrong answer)
- There can be additional qualities in the future, but the distinction between them must be clear at least for admins and staff.
- The more answers for each quality label provided = the better will be prediction.

Results

- After bot estimates the quality of answer, it can give points according to this quality (e.g., -1 for "bad", 1 for "average" and 3 for "good").

- To pass this stage of the interview, the candidate must cross the desired threshold.

Conclusion

As a result, the implemented chatbot can cover some stages of interviews to reduce the number of HR employees occupied with this process.

The bot will filter out the candidates who doesn't know the vital basic information needed for their desired positions.

The company is therefore can reduce losses and atomate routine processes.

Development and scalability

THE CHATBOT FOR INTERVIEW CAN BE TRAINED TO ESTIMATE ANSWERS' QUALITY TO MORE QUESTIONS.

THE DESIRED FUNCTIONALITY IS TO ASSESS EVEN COMPLEX QUESTIONS AND THOSE WITH MORE THAN ONE ANSWER.

BOT COULD ALSO PROVIDE SOME DIALOGS AND MORE USER-FRIENDLY INTERFACE NOT ONLY FOR INTERVIEWS BUT ALSO FOR GETTING HELP IF NEEDED.