



SKILLSYNC:

OPTIMIZING STUDENT COLLABORATION

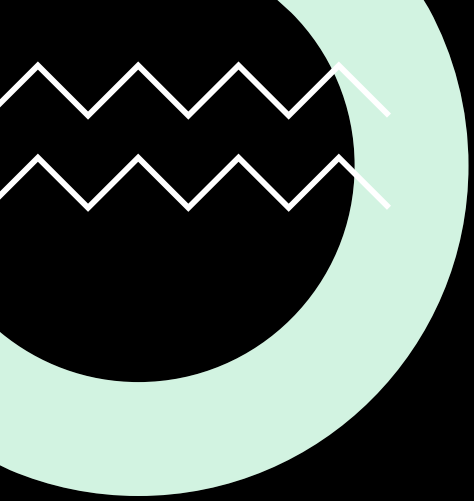
GROUP 12

AALEKYA REDDY CHINTALA

DIVIJA PADMA KANUMURY

KUNDANA LAKSHMI YEKOLLU

SAI VARUN REDDY GANGASANI



MOTIVATION

Main Research Goal: Can AI enhance the team formation process?

Objective: Explore the potential of AI tools to improve the process of forming teams.

Method: Utilize AI for in-depth skill assessments and resume reviews to optimize team composition.



TEAMWORK
BECAUSE WE SOMETIMES MAY NEED A HAND





User Requirements



ENHANCED SKILL
ASSESSMENTS
THROUGH
SUBJECTIVE
QUESTIONS



DIVERSE GROUP
LEARNING
ENVIRONMENTS



VARIED QUESTION
DIFFICULTY TO SUIT
ALL SKILL LEVELS

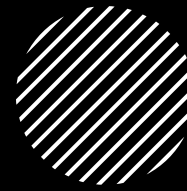


ENHANCED
QUESTION DESIGN
THROUGH PROMPT
ENGINEERING



OPTIMIZED RESUME
UPLOAD AND
PARSING WITH OCR
TECHNOLOGY





Interface

User feedback has driven the development of the SkillSync application to meet user needs

1. **Changed to Subjective Questions**
2. **Changed Question Difficulty Levels**
3. **Changed Resume Re-upload Interface**

Skill Assessment Questionnaire

Python Questions

Q2: How can you handle exceptions in Python code to prevent program crashes and improve error handling?

using try catch

Next Question

Submit

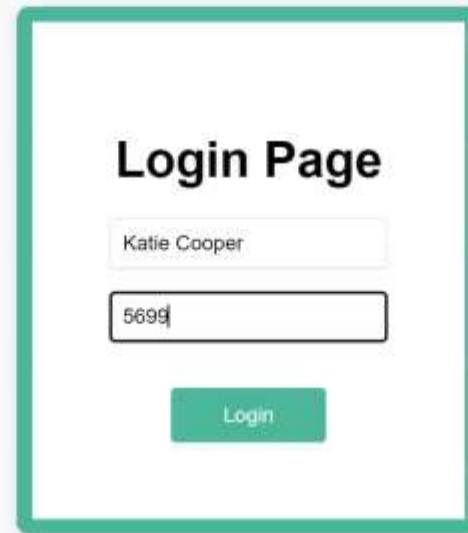
Re-upload your Resume

Choose File

No file chosen

Extract Skills

● Interaction



Login Page

Katie Cooper

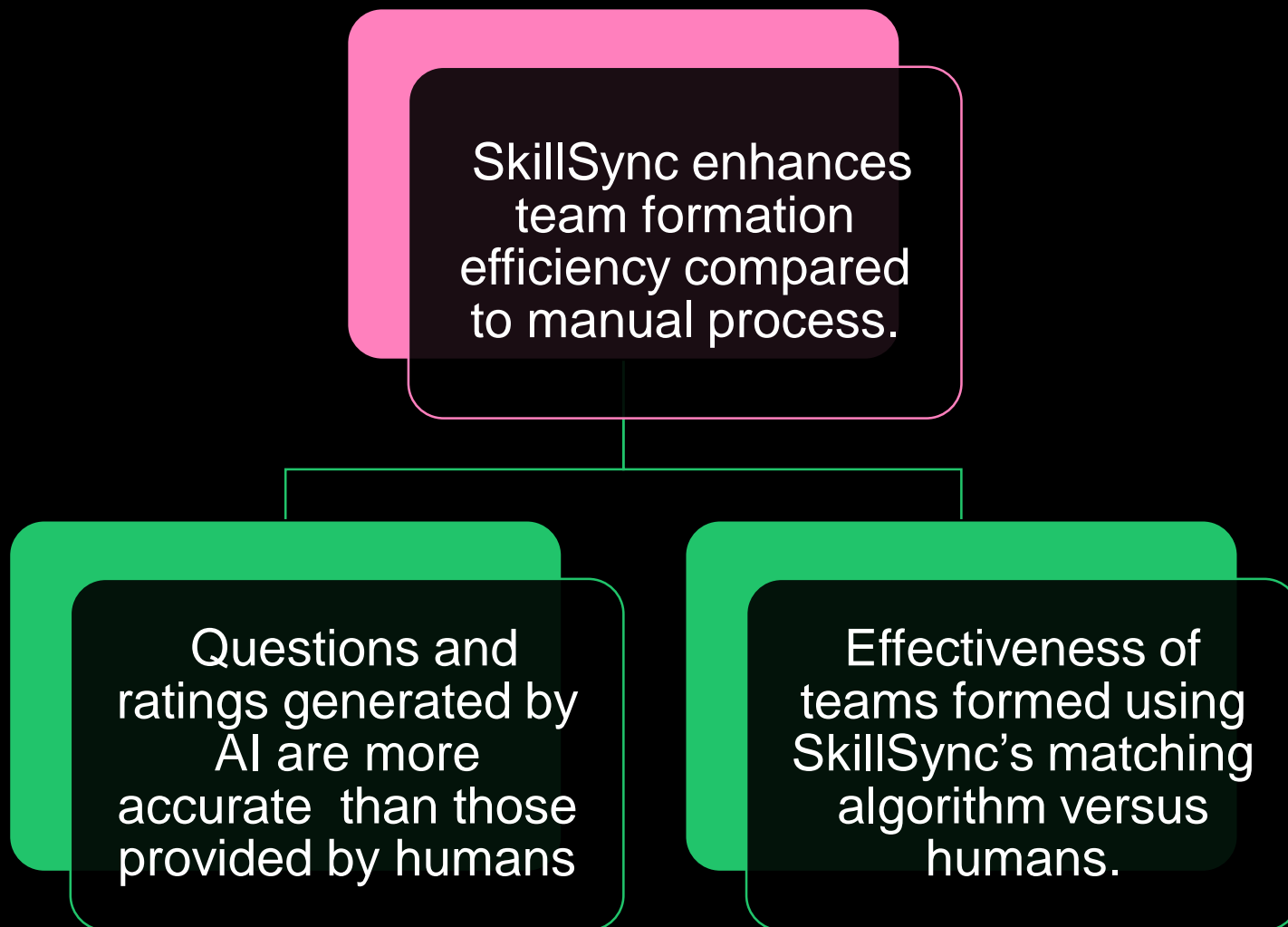
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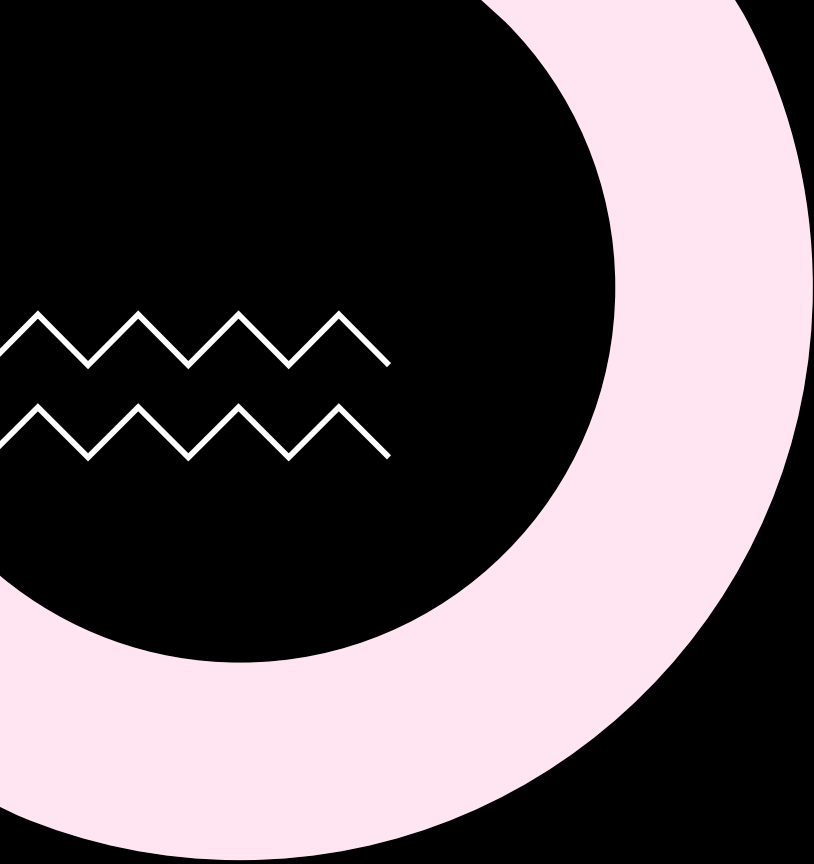
Login



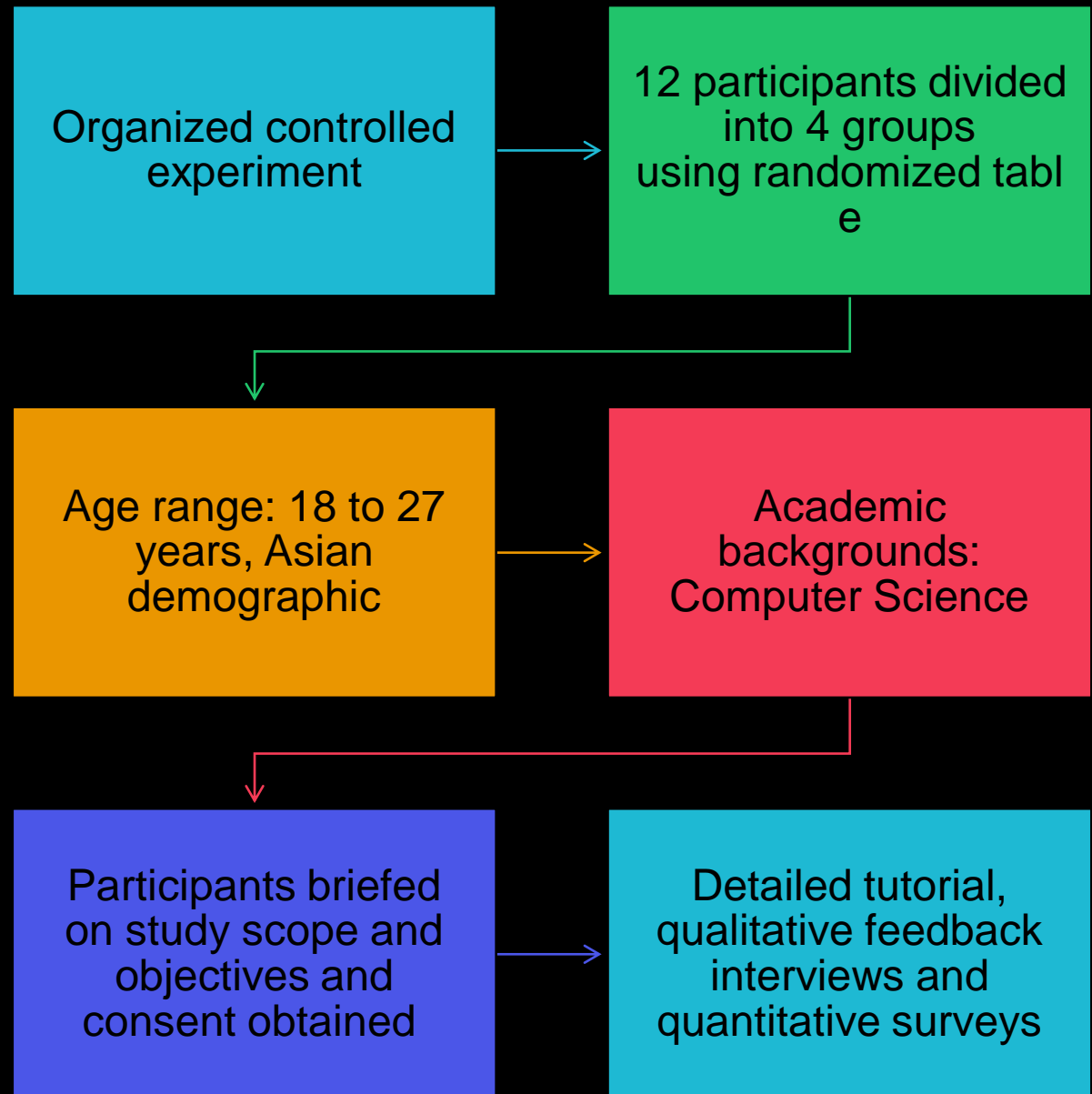


Hypothesis





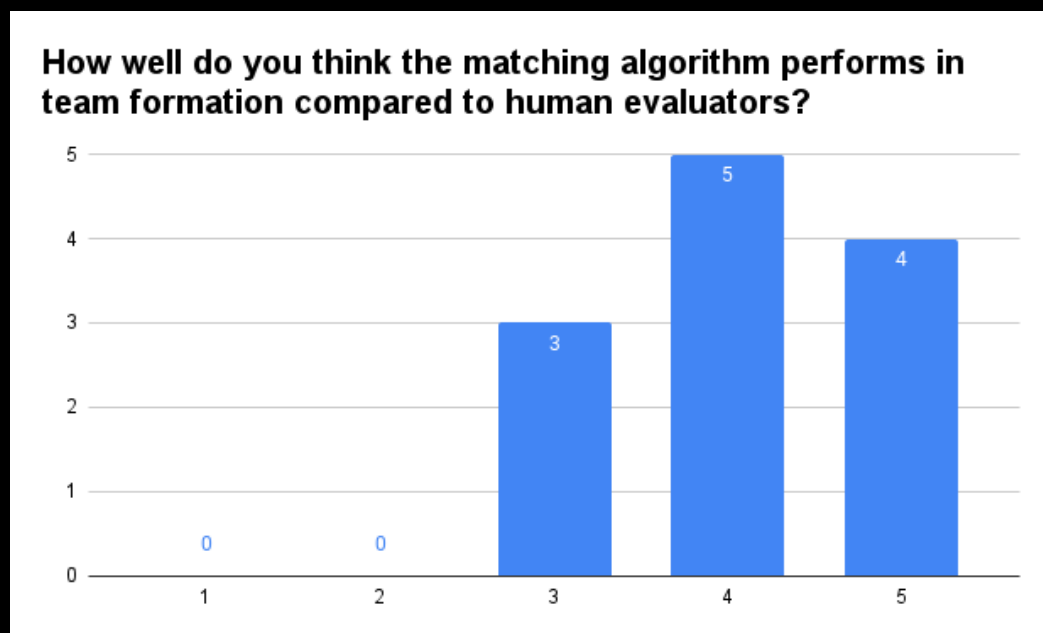
Participants



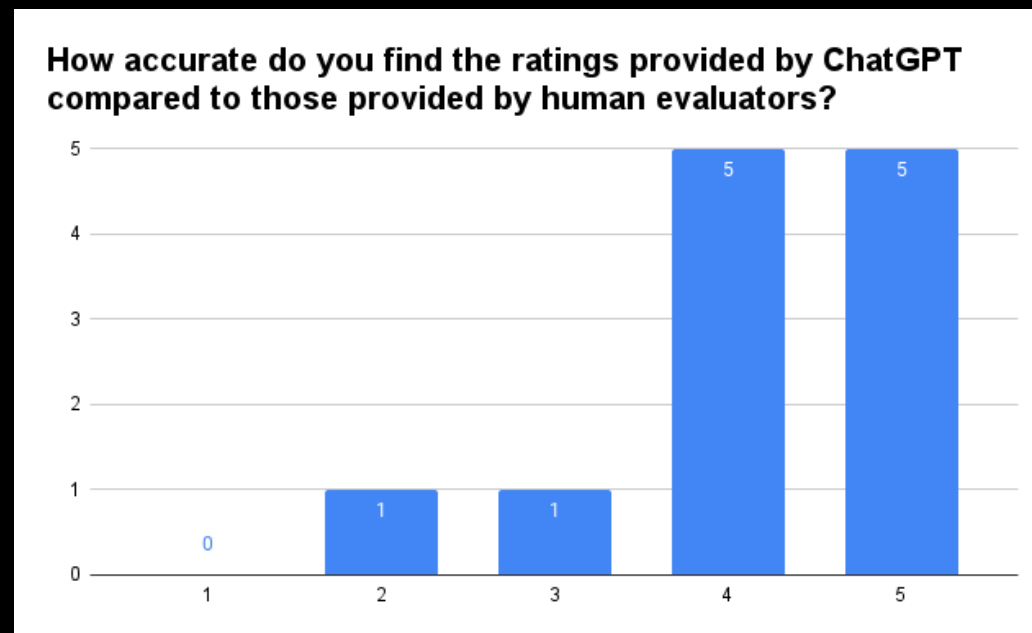


User Studies

We conducted surveys with 12 participants who responded to the questions below, and their responses are depicted in the bar graphs.



Independent variable: Method of formation – SkillSync vs Human
Dependent variable: Effectiveness




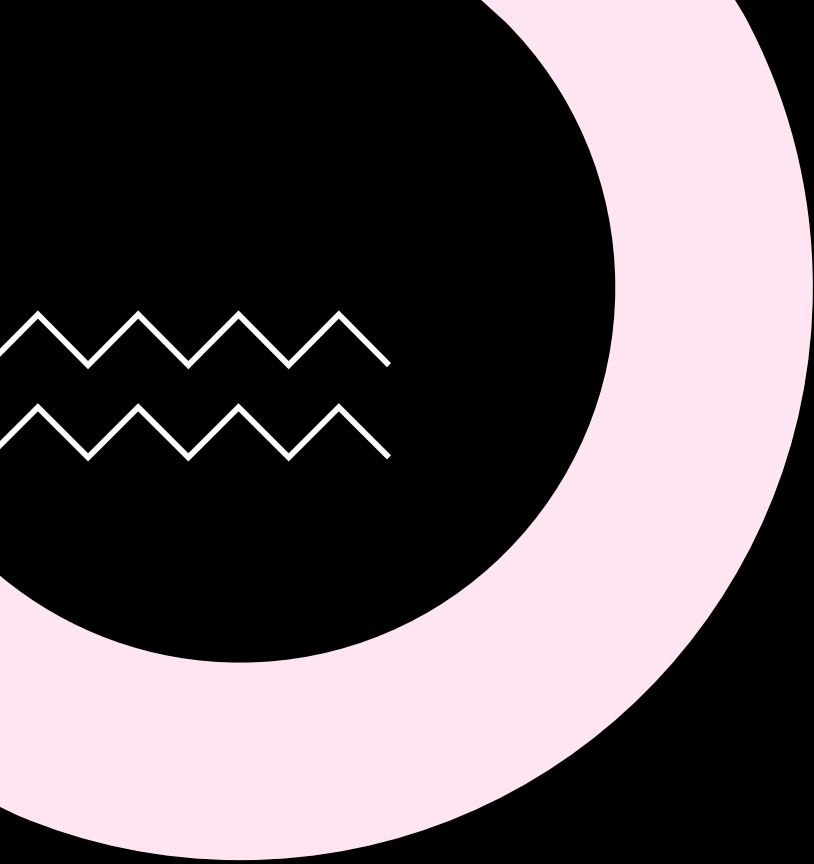
Independent variable: Source of rating – ChatGPT vs Human
Dependent variable: Accuracy





Key Findings

- **Secondary Hypothesis Examination**
 - Comparison of Team Effectiveness
 - AI Accuracy in Feedback and Ratings
 - **Primary Hypothesis Validation**
 - Enhanced Matching
 - Real-world Application
 - **Recommendations for Further Research**
 - Explore Additional Variables
 - Broader Application
- 



Thank you

