MATCHING WITH CODING

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Hello!

I AM SAKSHAM PRAJAPATI

International Student from Nepal
University of Missouri – St. Louis
Astrophysics with CS minor
Matching Teachers with Physicists

- Classroom Experience from Physicists reference
- Early exposure to Science
- Building interest for STEM career
How did we match in the past

- Sign up forms for teachers and physicists
- Final excel sheet
- Manual Matching
- Email to notify
Feedback from Last year

- Time zone Issue
- Science Communication
- Suggestion to improve process of matching
Creating Sign up for 2022

- Multiple Topics Option
  - Three choices on the basis of prioritization
- Time zone option
- Pre-recorded or Live-video
- School Level
  - Middle School
  - High School
- Teacher’s Physics/Science class level

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<th>Physics Content</th>
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Fixing with Coding

- Creating a Python Program
- Matching Parameters:
  - Topics
  - Meeting Preference
  - Time zone
  - School Level
- Excel Sheet is created
- Email Program
Flowchart of Program

Teachers' Dataframe → A row of Teacher → Topic Section

#1 Topic → #2 Topic → #3 Topic

School Lvl Section

#1 Middle School #2 High School

List of Timezone

Meeting Preference

#1 Live Video #2 Pre-recorded Video

Check new row

1st row of Physicists matched with the teacher

Matched group

Unmatched Teachers

Unmatched Physicists

Copy rest of Physicists df
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Challenges

- Sometimes you don’t have to go according to the plan
- New Programming Language
  - Stack Overflow and YouTube
Future of Physicists To Go

Making a better platform

• Create profile for Physicists and Teachers
• Ability to browse through profiles
  • Filter option
• Chat embedded website
Thank You!

ANY QUESTIONS?

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