



## Squad Matching Algorithm

### Background:

A key aspect of the RadicalX group internships is matching interns to a squad that matches their preferences. The onboarding process for all interns includes a detailed form where they enter the internships they are interested in, their preferences for their squad, their preferred start date, their educational and work background, and self-rating of skills that are relevant to the internship.

### Brief:

Please analyze this dataset to identify the factors that can be used to build an algorithm to match squads.

#### *Note about this data:*

This dataset contains real data, which has been anonymised to protect the privacy of our users. We have removed personal identifiers such as email, social media links, details about previous work experience. Names have been changed using a random name generator.

Sample data- Access Google Sheets template [here](#) or you can directly download a CSV from the RadicalX platform.

### Deliverables:

Python script that reads the given CSV or Google Sheet and outputs a final CSV file with column for groups

### Variables in the file:

- Name- This is a randomly generated name to protect the privacy of our users.
- Do you have any preferred language of communication?

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- What Group Virtual Internship Program are you interested in registering for? This includes the internship track that the intern is interested in.
- Age
- City
- Country 1, Country - these two combined will give you the country of the intern.
- Region
- Time Zone- preferred time zone preferences
- Current Occupation?
- School/University- which institution did they attend?
- What did you study at University/College?
- Upskilling courses on online platforms like Udemy, Coursera, edX, or others?
- Please describe what courses you have taken, if any.
- Do you have any previous work or internship experience?
- What is your preferred method of communication?
- The next variables from Product Management- Writing Reports, include self-ratings for skills that are relevant to the internship.
- Where did you hear about this internship?
- What was your primary motivation to undergo this internship program?
- What do you want to achieve by the end of this internship program?
- Would you prefer to be grouped with people who are more experienced or those who are as experienced as you?
- Which of the following demographics would you prefer to work with?
- For the Product Design Internship, what is your desired role?
- Secondary Product design
- For the Product Development Internship, what is your desired role?
- In case we are not able to accommodate your primary role request, please select other roles you would be willing to take on.
- For the Product Growth Internship, what is your desired role?
- In case we are not able to accommodate your primary role request due to cohort limitations, what other roles would you be willing to take on?
- For the Product Marketing Internship, what is your desired role?
- In case we are not able to accommodate your primary role request, what other roles would you be willing to take on?
- Which cohorts are you available to start the Product Marketing Internship?

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- Which cohorts are you available to start the Product Design Internship?
- Which cohorts are you available to start the Product Development Internship?
- Which cohorts are you available to start the Product Growth Internship?
- How many hours per week are you able to give to the internship program?

- Timezone
- Region
- Language Proficiency
- Experience Level ( Senior , Junior)