



# SKILL AND JOB RECOMMENDER

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

- 10 minutes to prepare
- 1 hour to collaborate
- 2-8 people recommended

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## Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

10 minutes

### A Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

### B Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.

### C Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.

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## Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

PROBLEM  
Having lots of skills but wondering which job will best suit you? Don't need to worry! We have come up with a skill recommender solution through which the fresher or the skilled person can log in and find the jobs by using the search option or they can directly interact with the chatbot and get their dream job.

Key rules of brainstorming  
To run a smooth and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.

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## Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

### KRISHNAN S

Provide efficient dataset to the system.

Job description must be given to the suited skill users.

Same email registration are not valid.

Invalid username and password are not enter the system.

The job given to the users according to their rights skills and job vacancies in the company.

### KISHOREDHARAN K R

we perform stop words removal, tokenization and lemmatization for the Portuguese language

the first step in this phase is filtering out job offers that do not belong to the IT field.

manager but failed to build model due to overfitting caused by small dataset.

Although we retrieved data from job search sites using only IT keywords,

### KARTHIK BALAJI K

We found a bigger dataset from Kaggle and used that to train our model on Google Colab which has given 85% validation accuracy

Then we used that model to build a Flask web application so that user can interact with it on Google Colab.

We integrated the ESCO-API in the web application. Which means after the job recommendation, the necessary skills also will be returned for that specific job.

Creating a database for easy identification of skill set for recommended job.

Building more powerful AI model and better prediction accuracy.

Finding best hyper parameter to train the model.

### KAVINESH P

build their personal movie recommender system, for example, for a resume project

the data sparsity of user preference matrices; and changes in user preferences over time

squared distances between every point and its nearest cluster mean called centroid

manager but failed to build model due to overfitting caused by small dataset.

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## Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

20 minutes

K-means clustering: K-means is a popular and simple to implement algorithm.

The spherical K-means has as input a set of unit vectors that lie on the surface of the unit hypersphere about the origin,

It groups N data points into k clusters by minimizing the sum of squared distances between every point and its nearest cluster mean called centroid.

Using clustering can address several known issues in recommendation systems, including increasing the diversity, consistency, and reliability of recommendations; .

The centroid of every cluster is recalculated as the mean of all data points assigned to this cluster.

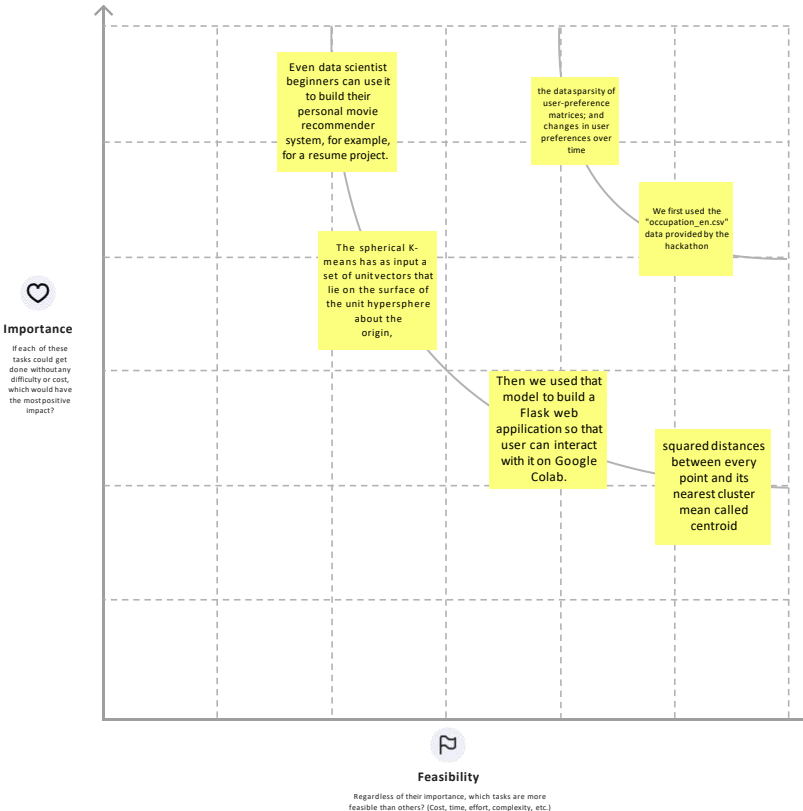
Collaborative filtering (CF) and its modifications is one of the most commonly used recommendation algorithms.

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## Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes



## After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

### Quick add-ons

#### A Share the mural

Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.

#### B Export the mural

Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

### Keep moving forward

#### Strategy blueprint

Define the components of a new idea or strategy.

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#### Customer experience journey map

Understand customer needs, motivations, and obstacles for an experience.

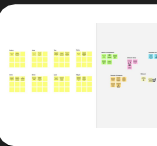
Open the template

#### Strengths, weaknesses, opportunities & threats

Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.

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Need some inspiration?  
See a finished version of this template to kickstart your work.

Watch example

