

## **DATOIN – Data Science Internship Assignment**

We are outlining 3 different problem statements for the Data Science assignment. Kindly go through, pick and attempt only 1 out of these 3 and submit by 16<sup>th</sup> May'21.

**Problem 1 :** Create a system that can detect from a video scene whether a person is playing , working or eating

**Dataset:** Kinetics data set @ <https://deepmind.com/research/open-source/kinetics>

**Deliverable:**

A system that will accept as input:

- a youtube video link
- start segment
- end segment

and as output provide information as text like:

- Playing
- Eating
- working

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**Problem 2 :** Visual Identification

**Dataset:** Any public dataset like one

- <https://data.vision.ee.ethz.ch/cvl/rrothe/imdb-wiki/>
- <http://www.image-net.org/>

a dataset with faces of celebrities can be used so that testing would be easy

**Deliverable:**

A system that will accept as input:

- a youtube video link
- start segment
- end segment

and as output provide information as text like:

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- A Human is present in the video or not
- Identify the Human that is present

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**Problem 3 : Answer/Recommendation Bot**

**Dataset:** Any corpus of text publically available in English and one other Indian Language

**Deliverable:**

Given a corpus of text as input training data, the bot should be able to answer questions from the text and recommend related content from youtube/wikipedia

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**General Guidelines:**

- Select any one problem you deem comfortable based on your skills/ experience
- Ensure the solution is well documented and the model is easily testable and sample test data is provided
- Provide an RESTfull API interface to access the system
- Keep us posted about your progress every couple of days
- Start with identification and preparation of your dataset and define the approach you are going to use to train and test your model.

Kindly submit your solution within next 5 days from the date of sharing this assignment (partial completion can also be submitted). You could either send it via email at [edtjobs1@datoin.com](mailto:edtjobs1@datoin.com), or push it to Github.

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