

## TIC Project Proposal

### Group information:

- Group Name: **TIC** {Taiwan-India-Canada}
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### Motivation to work on the API

- To analyze the adoptable pets from Petfinder.com
- To help the researchers benefit from the basic correlation and exploratory data analysis for pets open for adoption.
- To practice our web scraping and API building skills in lieu of becoming a better data scientist

### Description of the API:

#### ➤ **Introduction**

The TIC wrapper API allows you to access the analysis on thousands of pets listed on Petfinder.com and animal welfare shelters hosting these pets.

#### ➤ **Capabilities**

With the our TIC API, you can:

- function1 : Analyze based on pet characteristics and build appropriate visualizations categorized based on different animal Type (Dogs, Cats and Others)
- function2 : Analyze and display animal welfare shelters based on location (input param: user zip-code)
- function3 : association rules (calculating support, confidence and lift) based on pet characteristics. For example :

{playful, dog, young, good with kids}

{quiet, cat, young, good with ladies}

### Intended users and outcome

#### ➤ **Description of the intended users**

- Researchers looking for probability of association between different pet features and analyze Pets open for adoption.

#### ➤ **Description of the outcome**

- probability of association between different pet features
- analysis of Pets open for adoption
- comprehensive idea about the adoptability of different breeds of pets