1. input_features.csv

There are **39 columns** in this dataset, where the **building_id** column is a unique and random. identifier. The remaining 38 features are described in the section below. Categorical variables have been obfuscated random lowercase ascii characters. The appearance of the same character in distinct columns does **not** imply the same original value.

Description

- geo_level_1_id, geo_level_2_id, geo_level_3_id (type: int): geographic region in which building exists, from largest (level 1) to most specific sub-region (level 3).
 - o Possible values: level 1: 0-30, level 2: 0-1427, level 3: 0-12567.
- count_floors_pre_eq (type: int): number of floors in the building before the earthquake.
- age (type: int): age of the building in years.
- area_percentage (type: int): normalized area of the building footprint.
- height_percentage (type: int): normalized height of the building footprint.
- land_surface_condition (type: categorical): surface condition of the land where the building was built.
 - o Possible values: n, o, t.
- foundation_type (type: categorical): type of foundation used while building.
 - o Possible values: h, i, r, u, w.
- roof type (type: categorical): type of roof used while building.
 - o Possible values: n, q, x.
- ground floor type (type: categorical): type of the ground floor.
 - o Possible values: f, m, v, x, z.
- other_floor_type (type: categorical): type of construction used in higher than the ground floors (except for the roof).
 - o Possible values: j, q, s, x.
- position (type: categorical): position of the building.
 - o Possible values: j, o, s, t.
- plan configuration (type: categorical): building plan configuration.
 - o Possible values: a, c, d, f, m, n, o, q, s, u.
- has_superstructure_adobe_mud (type: binary): flag variable that indicates if the superstructure was made of Adobe/Mud.
- has_superstructure_mud_mortar_stone (type: binary): flag variable that indicates if the superstructure was made of Mud Mortar Stone.
- has_superstructure_stone_flag (type: binary): flag variable that indicates if the superstructure was made of Stone.
- has_superstructure_cement_mortar_stone (type: binary): flag variable that indicates if the superstructure was made of Cement Mortar Stone.
- has_superstructure_mud_mortar_brick (type: binary): flag variable that indicates if the superstructure was made of Mud Mortar Brick.
- has_superstructure_cement_mortar_brick (type: binary): flag variable that indicates if the superstructure was made of Cement Mortar Brick.
- has_superstructure_timber (type: binary): flag variable that indicates if the superstructure was made of Timber.
- has_superstructure_bamboo (type: binary): flag variable that indicates if the superstructure was made of Bamboo.
- has superstructure rc non engineered (type: binary): flag variable that indicates if

the superstructure was made of non-engineered reinforced concrete.

- has_superstructure_rc_engineered (type: binary): flag variable that indicates if the superstructure was made of engineered reinforced concrete.
- has_superstructure_other (type: binary): flag variable that indicates if the superstructure was made of any other material.
- legal_ownership_status (type: categorical): legal ownership status of the land where the building was built.
 - o Possible values: a, r, v, w.
- count families (type: int): number of families that live in the building.
- has_secondary_use (type: binary): flag variable that indicates if the building was used for any secondary purpose.
- has_secondary_use_agriculture (type: binary): flag variable that indicates if the building was used for agricultural purposes.
- has_secondary_use_hotel (type: binary): flag variable that indicates if the building was used as a hotel.
- has_secondary_use_rental (type: binary): flag variable that indicates if the building was used for rental purposes.
- has_secondary_use_institution (type: binary): flag variable that indicates if the building was used as a location of any institution.
- has_secondary_use_school (type: binary): flag variable that indicates if the building was used as a school.
- has_secondary_use_industry (type: binary): flag variable that indicates if the building was used for industrial purposes.
- has_secondary_use_health_post (type: binary): flag variable that indicates if the building was used as a health post.
- has_secondary_use_gov_office (type: binary): flag variable that indicates if the building was used fas a government office.
- has_secondary_use_use_police (type: binary): flag variable that indicates if the building was used as a police station.
- has_secondary_use_other (type: binary): flag variable that indicates if the building was secondarily used for other purposes.

2. target_values.csv

In addition to the building_id column(the unique and random identifier), it consists of the ordinal variable damage_grade, which represents a level of damage to the building that was hit by the earthquake. There are 3 grades of the damage:

- 1 represents low damage
- 2 represents a medium amount of damage
- 3 represents almost complete destruction