## Machine Learning Engineer Nanodegree

## Capstone Project

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## I. Definition

## **Project Overview**

Yelp is a social networking site that publishes crowd-sourced reviews about local businesses. About two years ago, Yelp challenged Machine Learning practitioners to build a model that automatically tags restaurants with multiple labels using a dataset of user-submitted photographs. The goal of this project is to develop such a model.

The competition was hosted by Kaggle, a platform where data scientist use their skills to produce the best models for predicting and describing the datasets uploaded by companies and users. The datasets and inputs are accessible via the Yelp Restaurant Photo Classification competition webpage<sup>1</sup>. Yelp provides a training dataset (234,842 photographs) and a test dataset (237,152 photographs) for this competition. Each photograph is mapped to a business identification number. Note that there is a total of 2,000 and 10,000 businesses in the training and testing datasets, respectively.

**Problem Statement** 

II. Analysis

III. Methodology

IV. Results

V. Conclusion

<sup>&</sup>lt;sup>1</sup>See https://www.kaggle.com/c/yelp-restaurant-photo-classification