CAPSTONE 2
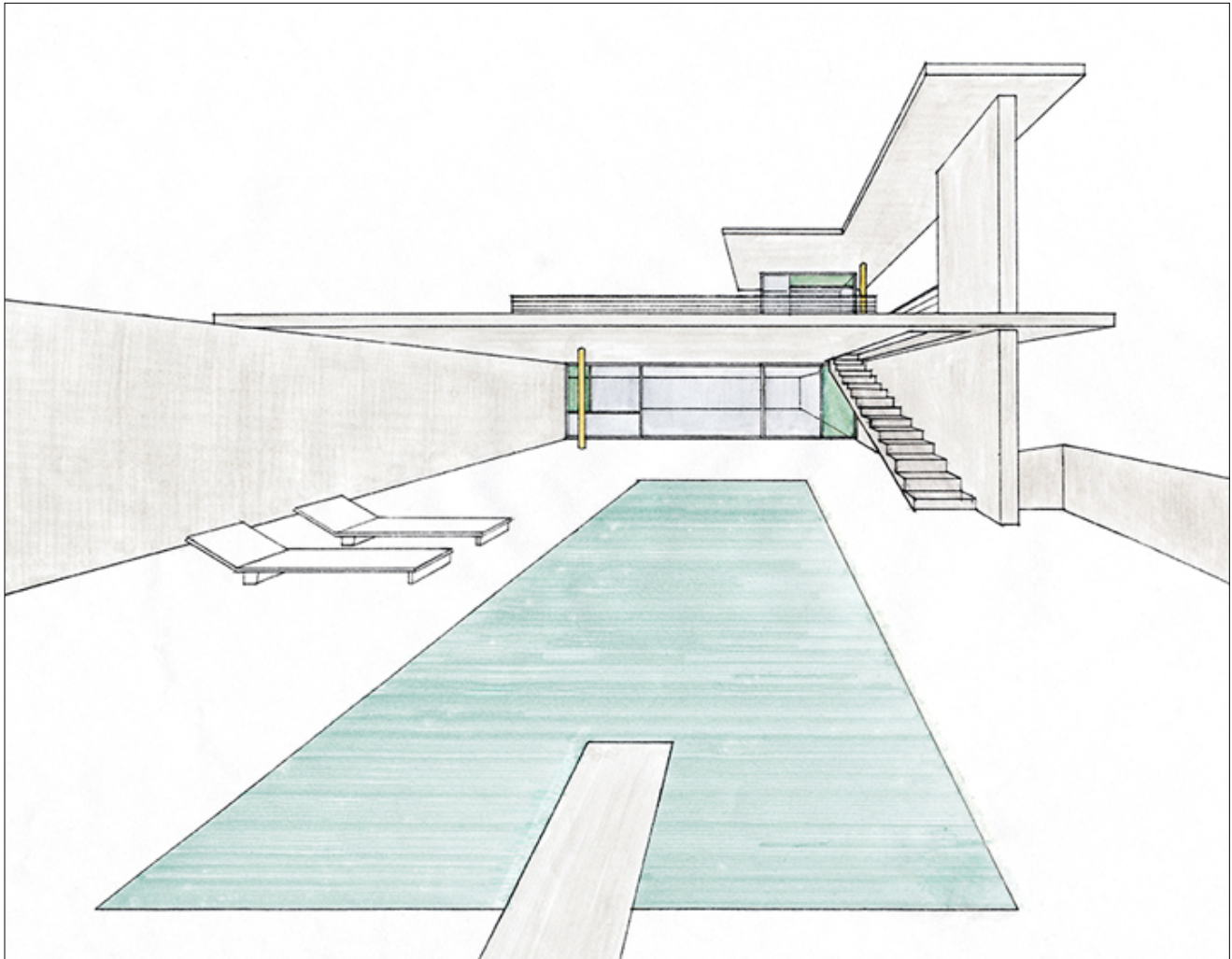

Project Proposal

Prepared for: Personal, Title

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PROJECT IDEA 1

Objective : Build a Model for Image Captioning

Image Captioning refers to the process of generating textual description from an image – based on the objects and actions in the image. It uses both Natural Language Processing and Computer Vision to generate captions.

The Data

The dataset is from Microsoft called MCOC Microsoft Common Objects in Context

Goals

- Use the Microsoft Common Objects in Context dataset
- We will first train a model to generate captions from images
- Then using the dataset of image-caption pairs to train a CNN-RNN model for automatically generating images from captions

Project Outline

This dataset has been used in a research paper in 2015 aiming at improving object recognition techniques. Object recognition model by itself helps us identifying the types of the objects in given image. The goal of this study was to achieve to answer the question of scene understanding by using images of complex real-life scenes containing common objects in their natural context. To achieve this goal, photos of easily recognizable 91 object types with a total of 2.5 million labeled instances in 328k images were used. Replicating this project might be interesting.

COMPANY NAME

PROJECT IDEA 2

Objective : Identifying Flower Species from Images

This project is to build an image classifier from scratch that will identify different species of flowers.

The Data

The data set contains images of flowers from 102 different species. We are provided a training set and a validation set total size of 297 mb.

Goals

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Project Outline

PROJECT IDEA 3

Objective : Speech to Text Project

Work on Voice data to extract text from it.

The Data

No data available yet. NMT English to Some other language. Available English to French.

Goals

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Project Outline

PROJECT IDEA 4

Objective : Price Recommendation and Prediction

New fashion products' sales are predicted using data mining regression techniques. For a given list of products, say women handbags, we want to find the optimum price for the products based on market value of items in the list.

The Data

Goals

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Project Outline