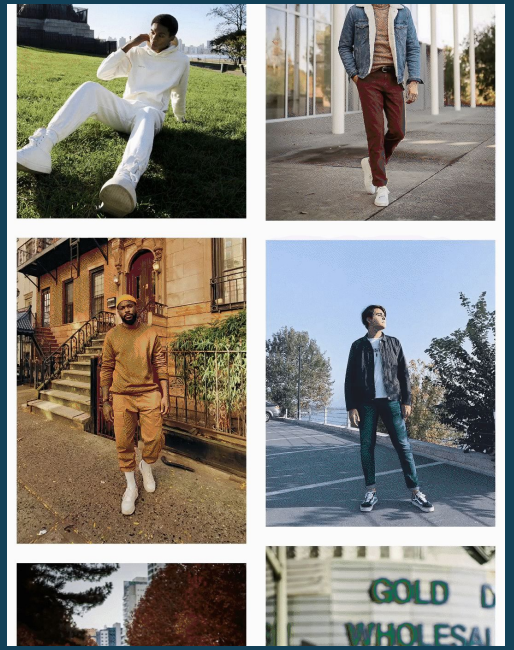
Improve Search Performance

Nao Kawakami GA Jan 2021



Outline

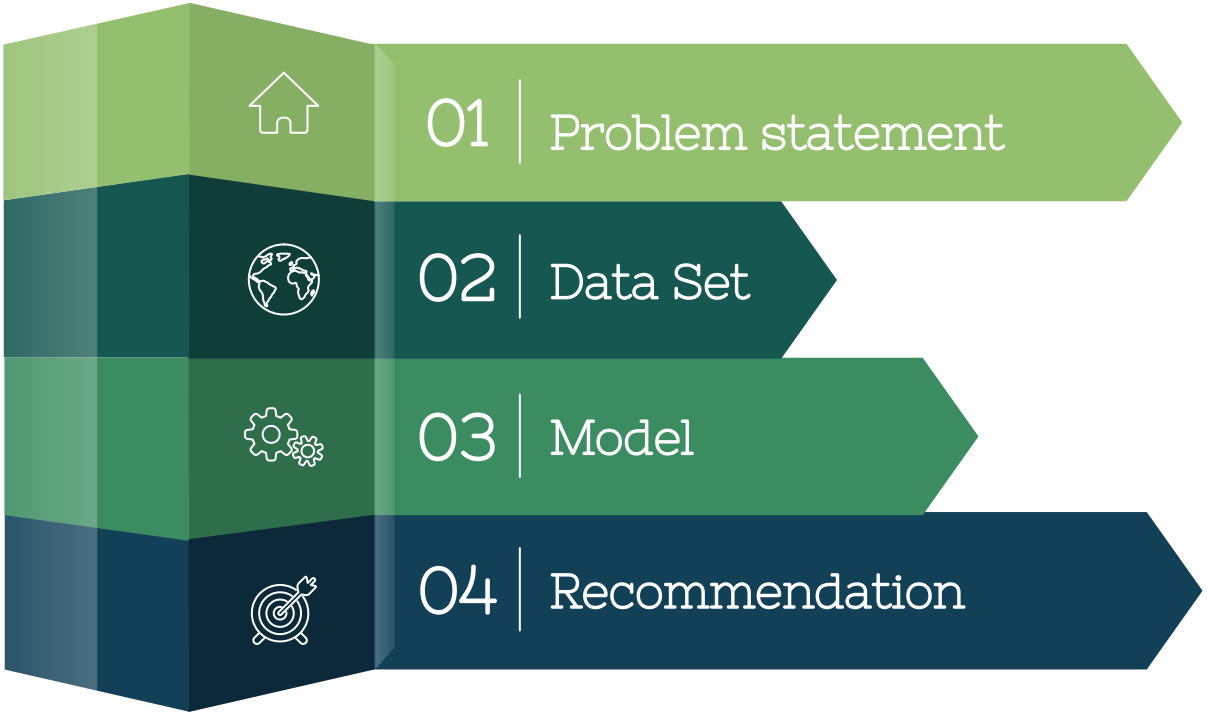
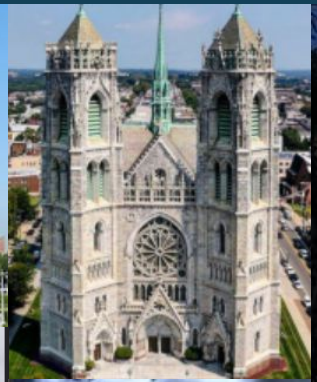


Diagram featured by http://slidemodel.com

Problem statement

It is convenient to get properties of an object with its image when you are not sure what it is

Data set

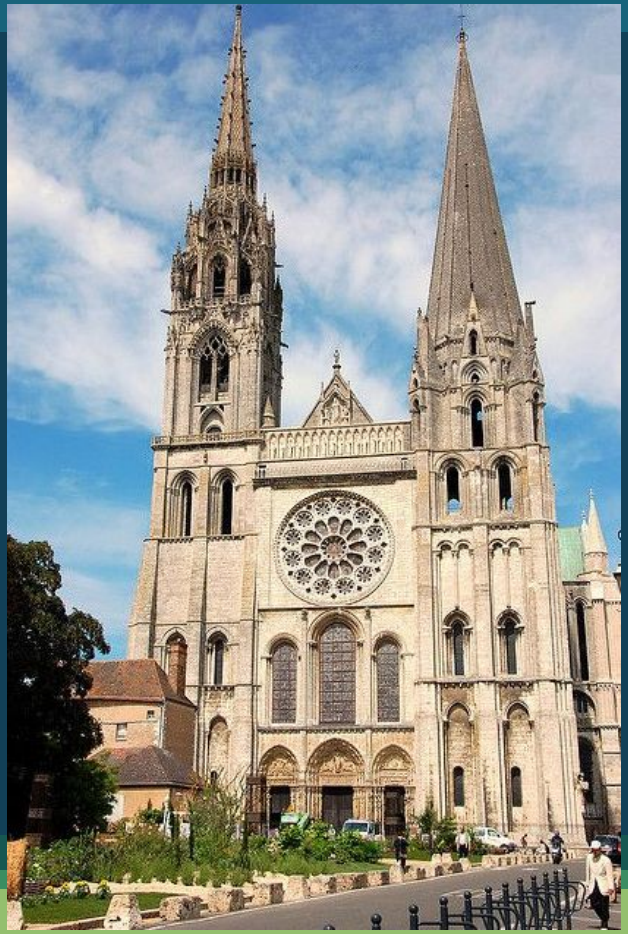






- The Cathedral Church of St. John the Divine
- Catedral Metropolitana Nossa Senhora Aparecida
- Patrick's Cathedral
- Catedral de La Plato
- Cathedral Basilica of the Sacred Heart
- Cathédrale Notre-Dame de Chartres
- Cattedrale di Santa Maria del Fiore
- Kölner Dom
- St. Paul's Cathedral
- Patriarchal Cathedral ST. Alexander Nevsky

Data set

- Similarity
- RGB
- Same shape



Cathédrale Notre-Dame de Chartres

Data set

Let’s start with the first set of slides

Data set

Color Scale	Shape
RGBα	(1200, 450, 4)
RGB	(428, 678, 3)
Gray	(564, 680, 1)

Data set

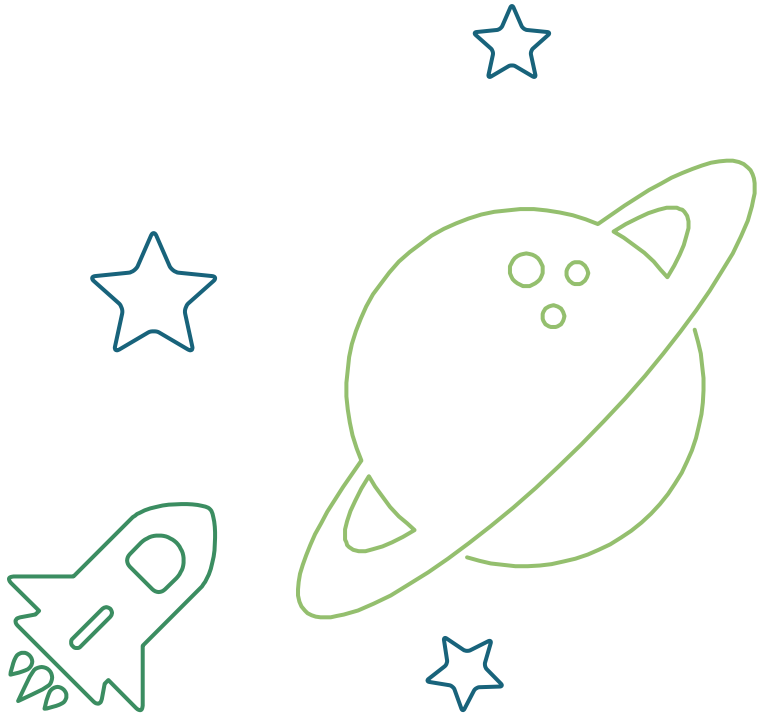
Image	Color Scale	Height	Width		Shape
NotreDame_1	RGBα	**566**	**728**	**Remove**	
NotreDame_2	RGB	**780**	**1100**	**-->**	**(255, 255, 3)**
NotreDame_3	P	**1200**	**728**	**Remove**	
NotreDame_4	RGB	**875**	**511**	**-->**	**(255, 255, 3)**

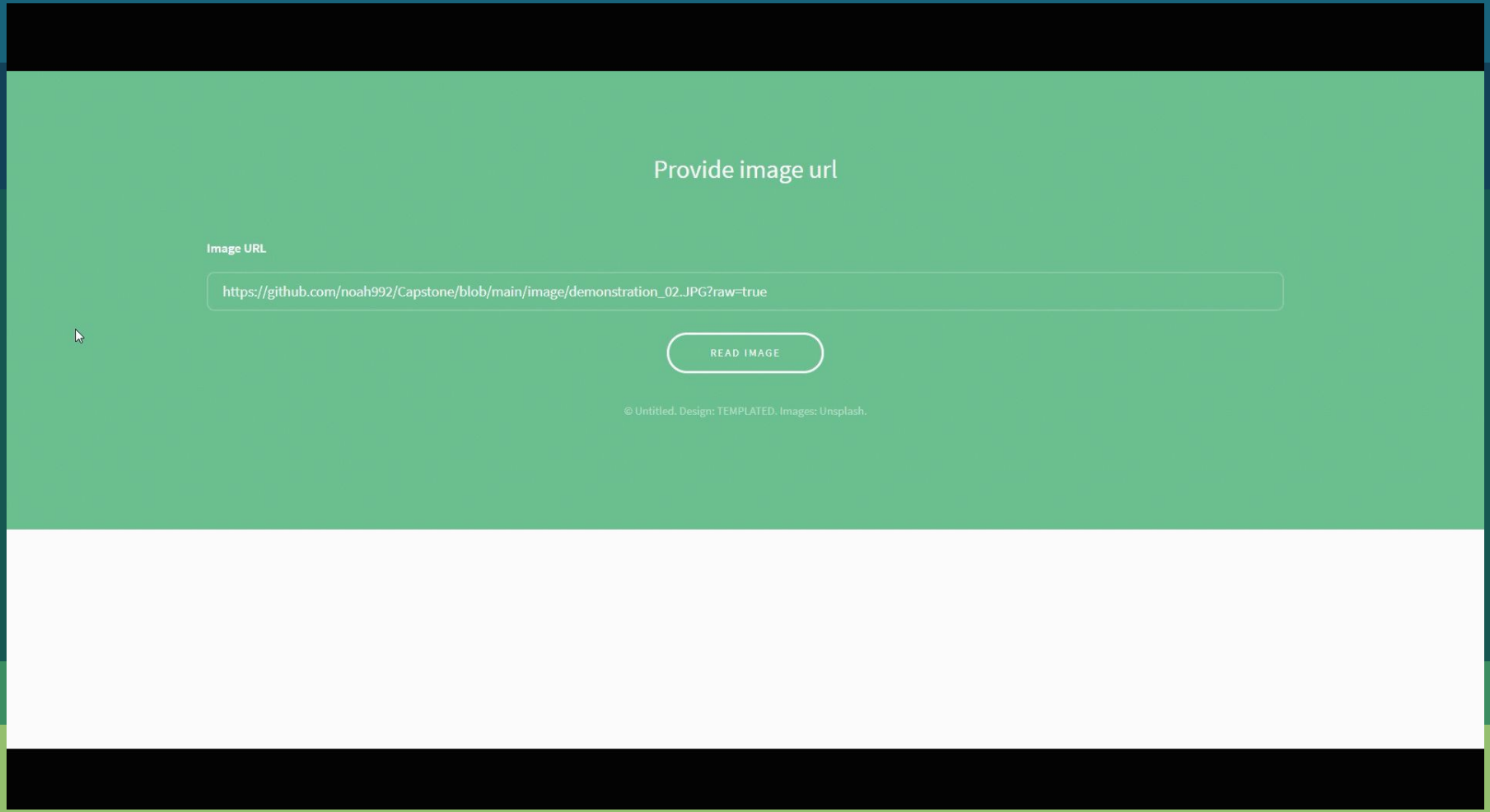
Model

Multi-classification

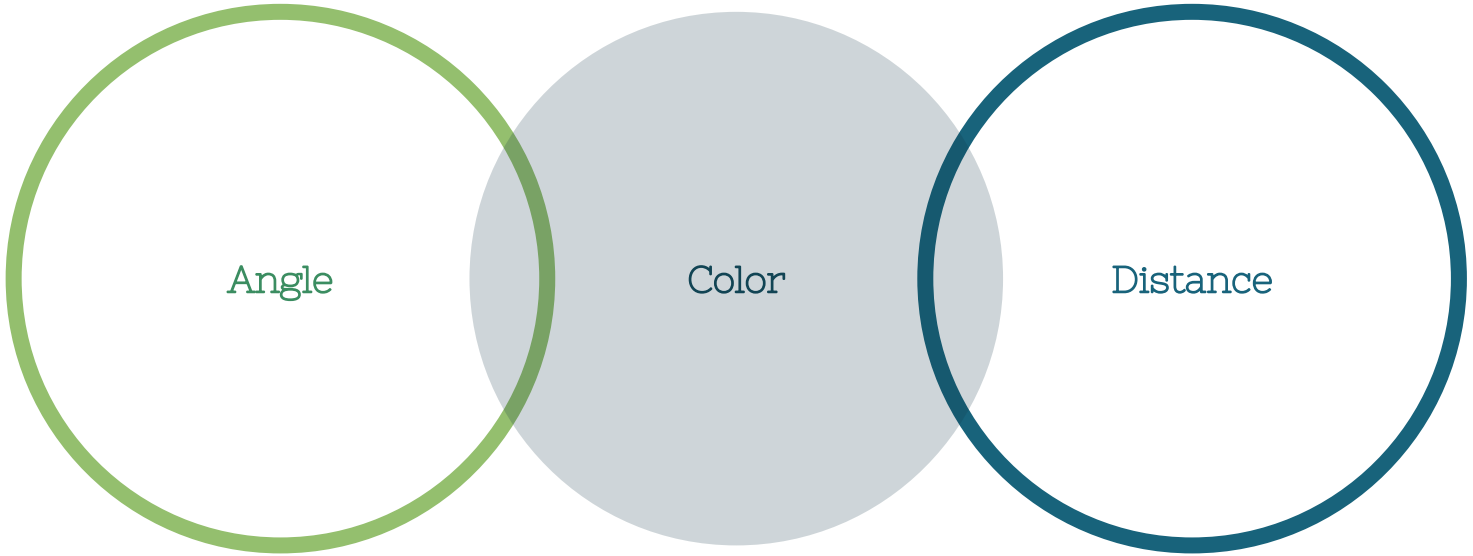
Keras

Sequential with Conv2D




Provide image url
Image URL
https://github.com/noah992/Capstone/blob/main/image/demonstration_02.JPG?raw=true
READ IMAGE
© Untitled. Design: TEMPLATED. Images: Unsplash.

Next step



Credits

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by SlidesCarnival
- Photographs by Unsplash, Lineトラベル
- Demo: Amazon, Google Map

THANKS!

Any questions?