

# PROJECT MICHELIN

Data Science Solution for Michelin :  
Guide for the Michelin Guide



# History of the MICHELIN Guide

- Andrew & Edouard Michelin brothers founded tire company
- Encourage tourists to take the road using little red guidebook



## MICHELIN STAR

Coveted by many chefs but bestowed upon only to an excellent few.  
Getting a star (or three) could change the fate of a restaurant.



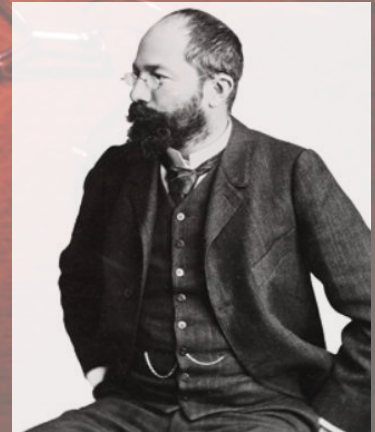
High quality  
cooking,  
worth a stop



Excellent cooking,  
worth a detour



Exceptional  
cuisine, worth a  
special journey



# GOAL



Help Michelin with their scoping of choosing restaurants



Data Science **GOAL**: create a model to better **TARGET** restaurants suitable to earn Michelin stars during the pandemic

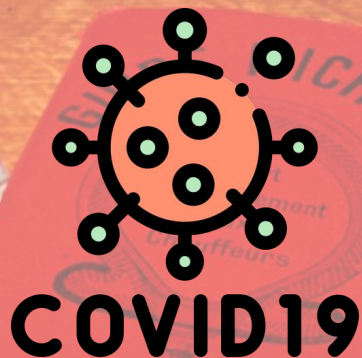


# Problem

Why the Data Science Approach?



**High Volume**  
of restaurants  
to explore



**Restrictions** for Michelin  
to visit restaurants  
due to pandemic



**Limited** distribution  
of types of cuisine

# Data Science Solution

How does it help Michelin?



**DIVERSIFY** and **INTRODUCE** more type of cuisines around the world for people to explore



**IDENTIFY** which **REGIONS** are populated with Michelin restaurants, and by what type of **CUISINE**

# Impact Hypothesis

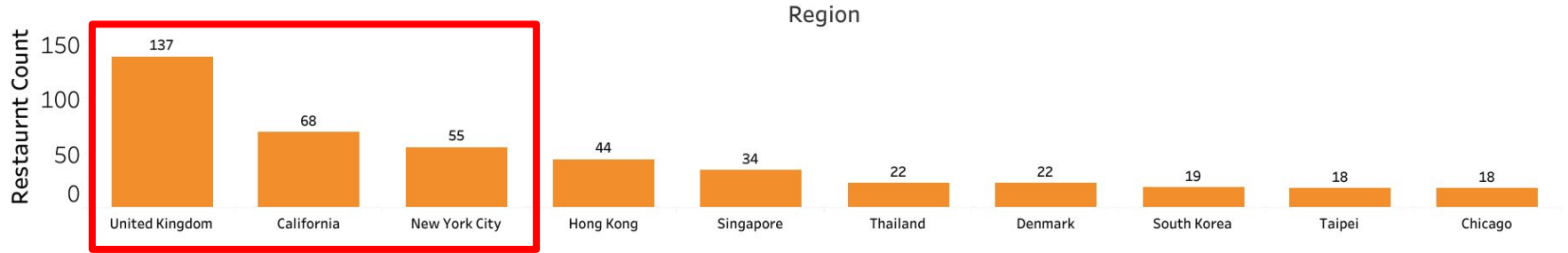


Save Michelin time by **NARROWING** down restaurants without having to visit **EVERY** restaurants during the pandemic

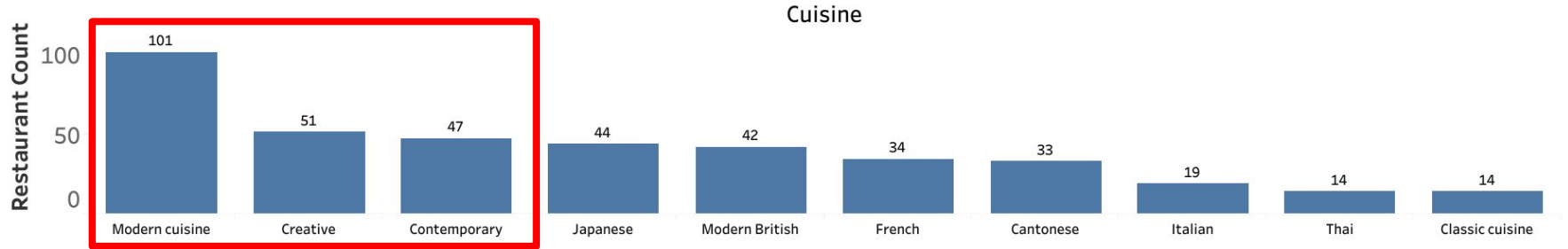


Provide connoisseurs with more **DIVERSE** options to choose from

## One Star Michelin by Region



## One Star Michelin by Cuisine

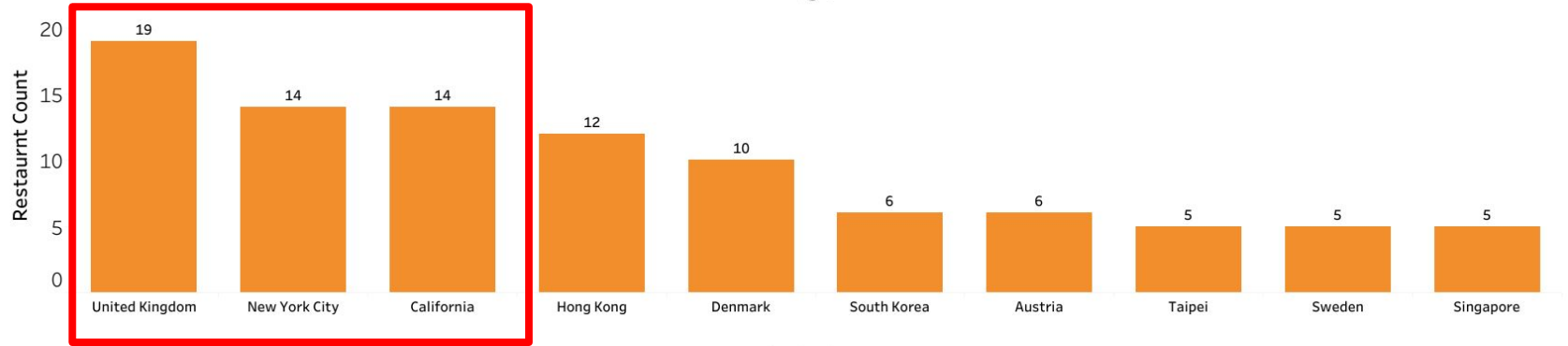


❑ **United Kingdom** had the most number of 1 star restaurants

❑ **Modern Cuisine** was the most popular cuisine

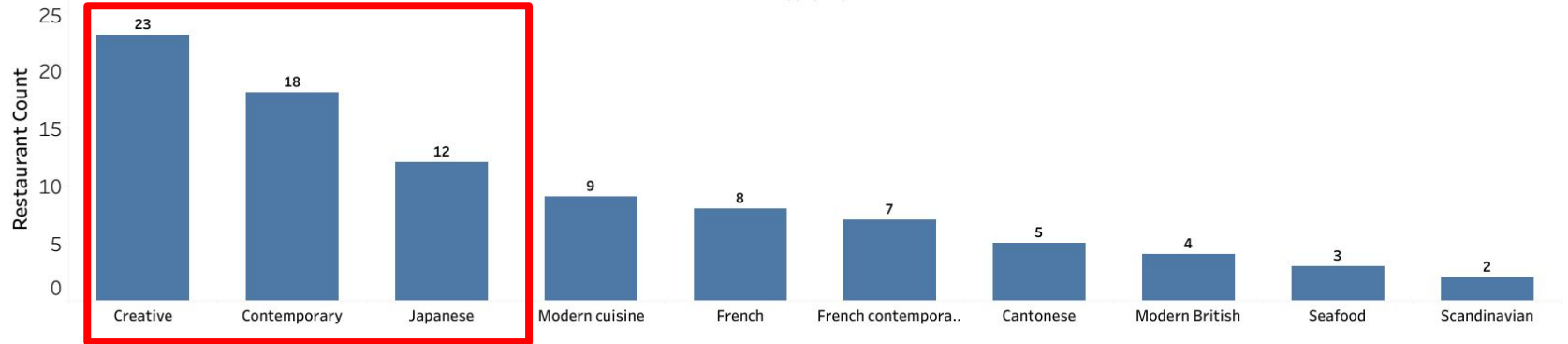
## Two Star Michelin by Region

Region



## Two Star Michelin by Cuisine

Cuisine



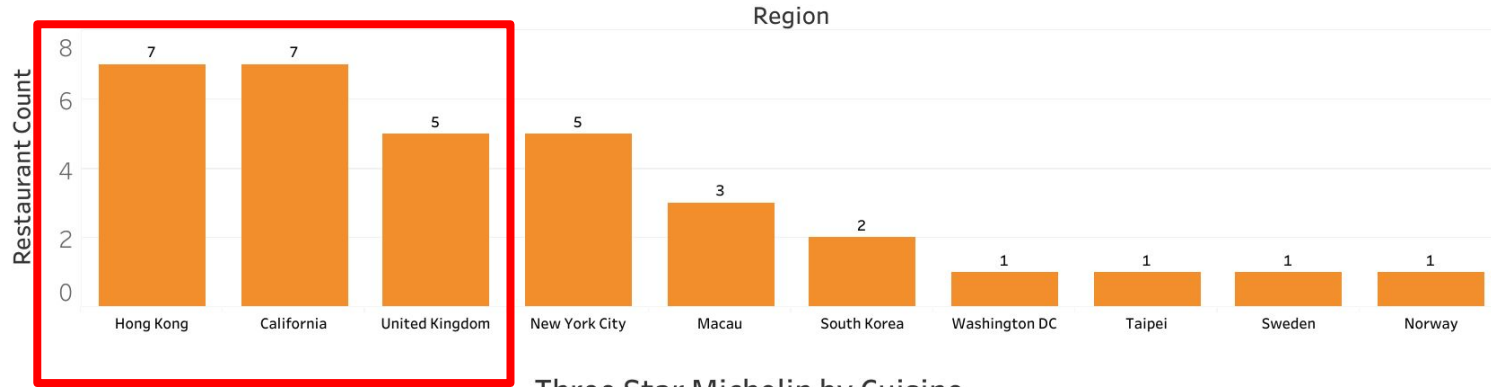
**United Kingdom** was ranked top again followed by U.S cities



**Creative Cuisine** was the most popular cuisine followed by **Contemporary**



### Three Star Michelin by Region

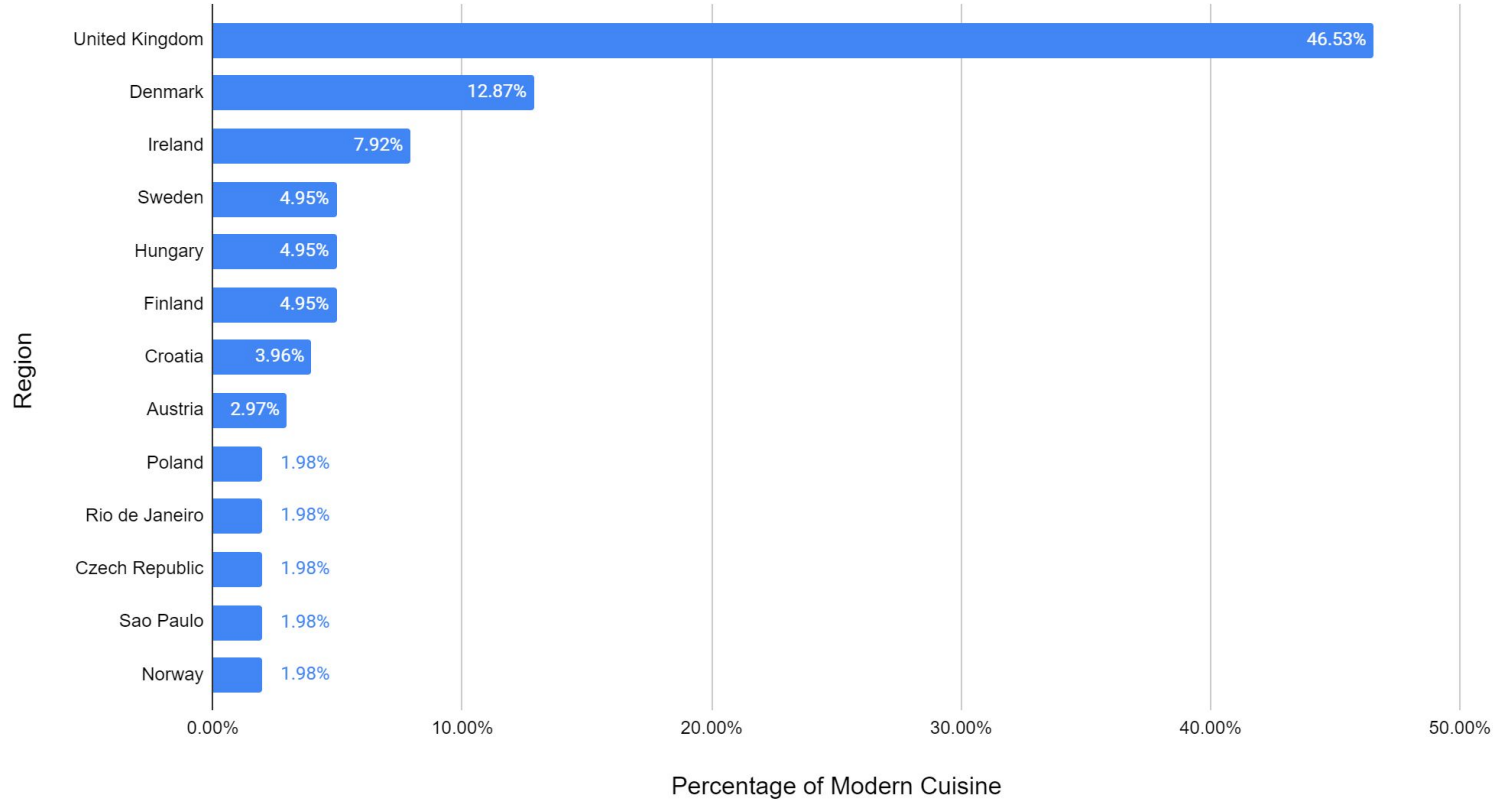


### Three Star Michelin by Cuisine



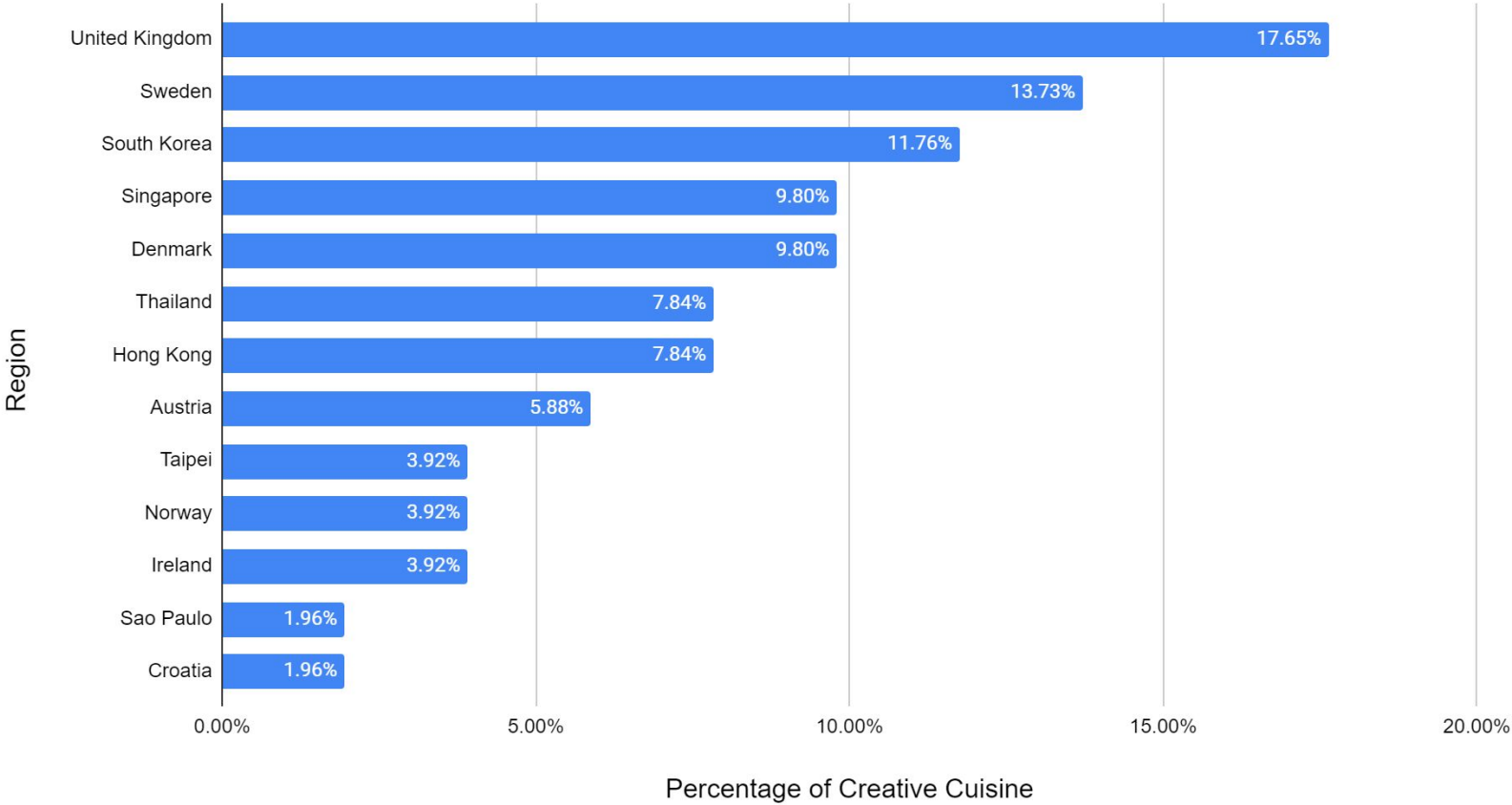
- ❑ **Hong Kong** was ranked 1st, **UK** came 3rd
- ❑ **Contemporary Cuisine** was the most popular cuisine
- ❑ **Cantonese, Japanese** that were in lower section of the rank was ranked high for Three Star

## One Star Modern Cuisine Distribution by Region



❏ **Uneven** distribution when broken down into specific cuisine

# One Star Creative Cuisine Distribution by Region



# Analysis Takeaways/Future Modeling

- ❑ **Uneven** distribution of cuisine
- ❑ Michelin should focus on **balancing** types of cuisines
- ❑ Focus more on other cuisines other than **Contemporary, Modern** or **Creative Cuisine**
- ❑ Predictive Modeling by scraping detailed restaurant information:
  - customer review
  - review of food quality
  - price

# THANK YOU

