PORTFOLIO

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#DataVisualisation

Tableau Dashboard for Pantheon

/February 2022

https://public.tableau.com/views/k0726viz/Dashboard

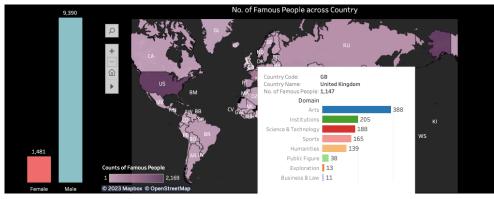
This Tableau dashboard was built for a practical exercise in an information visualisation course. It was designed to visualise the Pantheon dataset, which is a manually verified dataset that includes 11,341 globally famous biographies.

The visualisation facilitated the exploration of the data and helped extract insights to answer the following questions:

- 1. What are the demographic characteristics and occupational backgrounds of the famous biographies?
- 2. How do the relationships between HPI and page-views vary by biographies' expertise and birthplace?

The work combines different types of charts into one dashboard and utilises a geographic map, hover-over functions, and some interactive elements such as a slider for filtering, providing more dynamic views of the data.







#DataVisualisation

Google Data (Looker) Studio Report

/February 2023

https://lookerstudio.google.com/s/uJ7TFQ-KE88

This report is a replication of the performance reports previously presented to clients, using sample data provided by Google. It comprises an overview dashboard of Google Analytics data and a separate dashboard for Google Ads performance data.

The Google Analytics dashboard provides a detailed look at the acquisition performance of the account, with data on the number of users and sessions, user behaviour, and performance of pre-defined goals.

The Google Ads dashboard delivers an overview of ad performance in terms of clicks and impressions, eCommerce conversions, and overall cost. Additionally, it highlights the top performing campaigns and keywords.





#StatisticalComputing #R

Used Car Price Prediction

/March 2022

https://k0726.github.io/carprices.html

This solution was built using R and R Studio as a homework assignment of a data mining course. The approach of this solution is to construct a machine learning model and evaluate its performance.

The aim of this assignment is to predict the price of used cars using vehicles listings data from Craigslist, which can be obtained from Kaggle.

In this solution, ensemble methods, Bagging and Random Forest, were chosen to model the Craigslist car dataset and forecast the response variable (price) from other given variables.

While the Random Forest model showed better results, it was selected for further enhancing the predictive performance. The enhanced model was then used to predict the price of the used vehicles.

Solution

Setup

To predict price from other given variables, first load relevant libraries and dataset for modelling with Random Forest.

```
# Load relevant libraries and data
library(tidyverse)
library(car) # Anova(.)
library(randomForest) #randomforest(.)
library(caret)

vehicles <- read.csv("vehicles.csv", na.strings=c("NA", "NaN", ""))</pre>
```

Before start using the dataset, some data cleaning is needed.

```
id region price year manufacturer model condition
## 1 7316356412 auburn 15000 2013 ford f-150 xlt excellent
## 2 7316868220 birmingham 10950 2009 lexus rx350 excellent
## 3 7316031977 birmingham 45000 2017 chevrolet silverado excellent
## 4 7315259946 birmingham 98900 2001 ferrari 360 modena
## 5 7314833347 birmingham 4000 2002
                                 toyota camry like new
## 6 7314334186 birmingham 6950 2011 volkswagen
                                            jetta excellent
## cylinders fuel odometer title_status transmission drive
## 1 6 cylinders gas 128000 clean automatic rwd full-size
## 2 6 cylinders gas 191955 clean automatic 4wd full-size
## 3 8 cylinders gas 92000 clean automatic 4wd full-size
## 4 8 cylinders gas 20187 clean automatic rwd mid-size
## 5 4 cylinders gas 160000
                             clean automatic fwd full-size
## 6 5 cylinders gas 116000
                             clean automatic fwd full-size
     type paint_color state
## 1
     truck black al
## 2
                  white al
## 3 truck
                red al
## 4 convertible
                  red al
## 5
       sedan
                  white al
## 6
        sedan
                 silver al
```

```
# Compare the price distribution for the original dataset and its subset
par(mfrow=c(1, 2)); hist(dfRaw$price, main = "dfRaw", xlab = "Price")
hist(df$price, breaks = 20, main = "df", xlab = "Price"); par(mfrow=c(1, 1))
```

Vocabulary Game

/April 2016

http://www4.lt.cityu.edu.hk/~kmcheng49/home.html

This website features a Chinese-to-English vocabulary game and was developed as a semester-end project for a web-publishing course using the programming languages - HTML, CSS & JavaScript.



Movie Database

/November 2021

https://k0726.github.io/movies.html

This database was created for users to analyse American movies released since 1900. The program loads a local JSON dataset and includes select and search elements to filter the contents of the table.

Salact year from START w to END w Salact All Years Salact gapts: ALL

A database of American movies released since 1900

	Select year from START V to END V Select All Years Select genre: ALL V Search any title or cast Search Records per page: ALL Total records found: 88		
Year	Title	Genres	Cast
1900	After Dark in Central Park		
1980	Airplane!	Comedy	$Robert\ Hays, Julie\ Hagerty, Leslie\ Nielsen, Peter\ Graves, Robert\ Stack, Lloyd\ Bridges, Kareem\ Abdul-Jabbar$
1990	The Adventures of Ford Fairlane	Comedy	$And rew\ Dice\ Clay, Wayne\ Newton, Priscilla\ Presley, Lauren\ Holly, Maddie\ Corman, Ed\ O'Neill, Morris\ Day, Tone\ Loc, Gilbert\ Gottfried, Robert\ Englund$
1990	Sibling Rivalry	Comedy	Kirstie Alley, Scott Bakula, Bill Pullman, Jami Gertz, Sam Elliott, Carrie Fisher
1991	The Last Boy Scout	Action	Bruce Willis, Damon Wayans, Chelsea Field, Noble Willingham, Taylor Negron, Danielle Harris, Halle Berry
1991	Liebestraum	Drama	Bill Pullman, Kevin Anderson, Kim Novak
2011	The Art of Getting By	Romance, Comedy, Teen	Freddie Highmore, Emma Roberts, Michael Angarano, Elizabeth Reaser, Sam Robards, Alicia Silverstone, Rita Wilson, Blair Underwood

Card Game

/February 2022

https://k0726.github.io/cards.html

This application was developed as an assignment for an advanced programming course. It is a card game that challenges players to guess if the next card is higher or lower. The program relies on the online API to access remote services and manage the deck of cards.

Higher or Lower



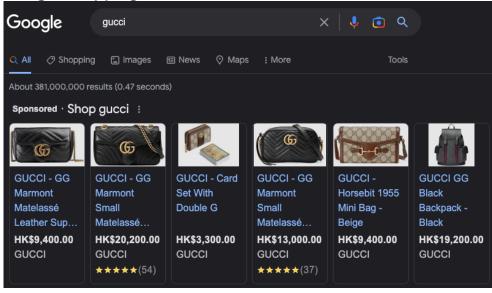
#DigitalMarketing

Digital Marketing Ad Examples

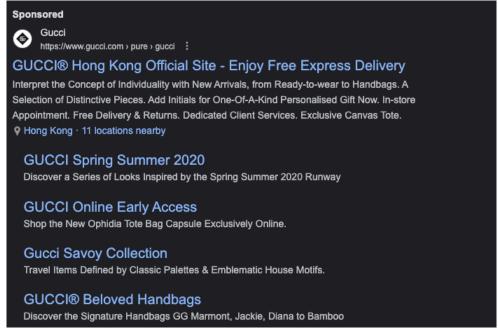
These are some examples of the digital marketing paid ads that I worked on as a Digital Marketing Analyst.

As a data-driven Digital Marketer, I have expertise in paid search (search engine marketing, SEM), paid social (social media marketing, SMM) and client management. I specialise in performance marketing, which entails analysing and optimising performance data to achieve measurable results.

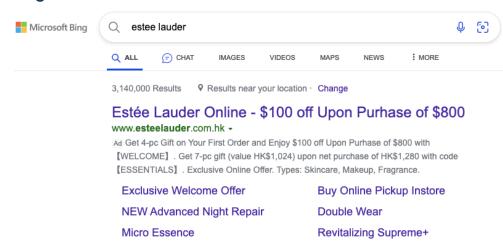
I have successfully delivered outstanding results for a wide range of clients across various industries, including luxury fashion, cosmetics, eCommerce and retail. Google Shopping Ad - Gucci



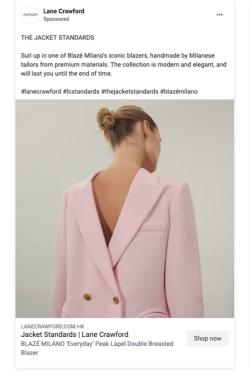
Google Search Ad - Gucci



Bing Search Ad - Estée Lauder

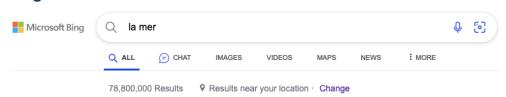


Facebook & Instagram Ads - Lane Crawford





Bing Search Ad - La Mer



World of La Mer | Skincare & Makeup | Shop Online

www.lamer.com.hk -

Ad Pick your 5-piece skincare regimen upon purchase of HK\$2,700. Complimentary Gift Wrap and Shipping with Every Order. Discover La Mer's collection of luxury skincare and makeup. Our moisturizers, cleansers and eye creams soothe sensitivities, heal dryness and restore radiance for younger-looking skin.

Today's Offer

Pick your 5-piece skincare regimen upon purchase of HK\$2,700.

Crème de la Mer

Make Your Skin Virtually Ageless.
Improve Lines, Wrinkles & Firmness.

Bestsellers

Discover the Most Coveted La Mer Skincare Products. Shop Now!

Waves de la Mer Loyalty

A loyalty program inspired by the sea. Enjoy radiant rewards & exclusive perks.

Facebook & Instagram Ads - Nike

