

# Diego Usai

CUSTOMER INSIGHT · BUSINESS ANALYTICS · DATA SCIENCE · MACHINE LEARNING · DATA PRODUCTS · R · SQL

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*"Competent Analytics Professional, Consultant and Data Manager with experience in Team Leadership, Project Management and Customer Analytics, sound working knowledge of various Statistical and Machine Learning techniques and an insatiable curiosity about how to use data to inform business decisions."*

## Skills

TECHNIQUES - Statistical Learning, Machine Learning, Time Series Analysis, Demand Forecasting, Propensity Modelling, A/B Testing, Clustering and Classification for Segmentation and Targeting, Marketing Response Modelling, KPIs Optimisation, Attribution Modelling, Text Analysis, Dimensionality Reduction, Market Basket Analysis, Structural Equation Modelling | WEB APPS / DATA VISUALISATION - Shiny, FlexDashboard, Tableau, PowerBI | TOOLS - R, MS SQL, PostgreSQL, H2O, GitHub, TensorFlow, Python (Basic), AWS (Basic), MongoDB (Basic) | SOFT SKILLS - Team Leadership and Coaching, Project and Stakeholder Management, Analytics and Insight Generation

## Professional Experience

### Reach plc

London, UK

MARKETING ANALYTICS LEAD

Aug-20 – Present

- Responsible for providing advanced marketing, advertising and customer analytical expertise to ensure that the organisation can derive competitive advantage from data on its customers, and help guide strategic direction
- Shape strategic e-commerce road-map for new products/services (OK! Beauty Box, Energy Switch Partnership, etc.) and provide analytic and measurement expertise - attribution modelling, revenue forecasting, churn analysis, A/B testing, conversion funnel optimisation, CLV estimation
- Develop partnerships with advertisers to demonstrate ROMI at Reach level, increasing our accountability and positioning Reach as UK's 5th largest digital publisher
- Support National and Regional sales teams by identify cross- and up-sale opportunities to consolidate advertising spend with existing and prospective clients

### Self-employed

London, UK

CUSTOMER INSIGHT AND MARKETING ANALYTICS CONSULTANT

Jul-18 – Jul-20

- Working on Customer Insight, Business Intelligence and Marketing Analytics projects

### Towards Data Science / The Startup / Analytics Vidhya / Data Driven Investor

Online

FREELANCE CONTRIBUTING WRITER

Mar-19 – Present

- Contributor to several online publications and blogs - Covering topics in Cluster Analysis for Customer Segmentation, Optimisation, Propensity Modelling, Time Series Machine Learning Analysis, Demand Forecasting, Market Basket Analysis, and more to come!

### Ebiquity plc

London, UK

DIGITAL DATA MANAGER

Feb-17 – Jun-18

- Lead and mentor a team of 3 Data Analysts to deliver ad-hoc analysis as well as more holistic customer segmentation projects
- Use a combination of R and SQL to gather, cleanse and reconcile data from various sources (Ad Server, Third-party Verification, Google Analytics, Shareable Analytics, etc) to support customer-level analysis, reporting and tracking, and help clients identify new opportunities
- Develop and maintain R Shiny dashboards to visualise to monitor clients KPIs and conduct regular market trend analysis
- Use Structural Equation Modelling in R for Social Sentiment Analysis to assess impact of Paid, Owned and Earned media mix on social consumer sentiment for Subway restaurants chain, resulting in a 7% improvement in overall budget allocation

### Ebiquity plc

London, UK

SENIOR ANALYTICS CONSULTANT

Apr-13 – Jan-17

- Lead consultant across national and international clients, working collaboratively with stakeholders to understand issues, translate them into insight briefs, conduct in-depth analysis, and use results to shape strategy
- Work with RIAS Insurance stakeholders across several business units to identify business relevant customer segments, carry out analysis to understand and improve customer acquisition, value management and retention, and generate cross sell and up-sell opportunities
- Use SQL and R to collect and compile structured and unstructured data from various sources to run bespoke analysis and generate insight
- Run media budget portfolio optimisation and what-if scenarios to produce KPI forecasts based on optimum marketing budget allocation - average ROI lift of 5% to 25%
- Work with stakeholders to design, execute and analyse results of several online and offline media testing to answer clients' specific questions

### Neustar MarketShare

London, UK

MARKETING SCIENTIST

Feb-13 – Mar-13

- Develop estimation algorithms for market response models to implement in MarketShare proprietary modelling and optimisation platforms

## Annalect

CONSULTANT ANALYST

[London, UK](#)

Feb-12 – Jan-13

- Lead consultant responsible for scoping out, setting up and delivering a brand new marketing response offering for Sainsbury's retail, leading to a 5% overall ROI boost
- Contributing author to the Silver Award Winning IPA 2012 Effectiveness Paper "Waitrose: The best ever Christmas"

## Havas Media Group

ANALYTICS DIRECTOR

[London, UK](#)

Sep-10 – Jan-12

- Conduct time series analyses to understand role of key business drivers for national and international clients in transport, retail and hospitality

## Publicis Groupe

SENIOR ANALYST

[London, UK](#)

Aug-08 – Aug-10

- Construct response models to gauge influence of advertising on consumer behaviour and assess efficiency of communication strategies

## Gain Theory

ANALYST

[London, UK](#)

Apr-06 – Jul-08

- Building bespoke marketing mix models to measure the sales effectiveness of media and marketing activities, gaining understanding of brand performance and quantify ROIs for financial, telecommunication, and e-commerce clients

## Various Companies

VARIOUS ROLES

[London, UK](#)

Mar-01 – Mar-06

- Non-analytical roles

## Education

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### Business Science University

APPLIED DATA SCIENCE AND MACHINE LEARNING FOR BUSINESS

[Online](#)

2018 – 2022

- Project-based online learning with a strong focus on Applied Business Analytics, combining course work with end-to-end Data Science Projects to develop a comprehensive skills set that blends Applied Analytics, advanced Machine Learning and Business Consulting
- With a road map shaped by the 80/20 Pareto principle, you acquire working knowledge of platforms, skills and technologies that enable to answer complex questions, fast!

### The Johns Hopkins University

DATA SCIENCE SPECIALISATION VIA COURSERA

[Online](#)

2016 – 2017

- Selected units taken from this 10-course programme - R Programming, Getting and Cleaning Data, Exploratory Data Analysis, Reproducible Research, Statistical Inference, Practical Machine Learning, Developing Data Products

### Mango Solutions

DATA SCIENCE TRAINING

[London, UK](#)

2015 – 2015

- 5-day Data Science Training focused on R and the RStudio IDE

### Università degli Studi di Cagliari

LAUREA IN ECONOMICS AND STATISTICS, 1:1 HONOURS DEGREE EQUIV.

[Cagliari, Italy](#)

1995 – 2000

- Part Time, specialised in Time Series Econometrics and Forecasting
- Modules including Microeconomics, Macroeconomics, Statistics, Econometrics, Game Theory, Industrial Organisation
- Dissertation - "Non-linear Econometric Models: an Application to Modelling and Forecasting GDP"

## Selected Projects

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### Market Basket Analysis

[LINK TO PROJECT](#)

WINTER 2019

- Multi-Parted Project - Part 1: explore and cleanse a dataset suitable for modelling with recommendation algorithms - Part 2: fit various Product Recommendation models with the recommenderlab R package - Part 3: select best performing model to implement a Shiny Web Application

### Time Series Machine Learning Analysis and Demand Forecasting

[LINK TO PROJECT](#)

AUTUMN 2019

- Build a time series machine learning pipeline and generate a weekly revenue forecast
- Carry out an exploratory time series analysis with TSstudio and use insight to create a number of predictors. Then train and validate an array of machine learning models with H2O and compare models' accuracy using performance metrics and actual vs predicted plots

### Propensity Modelling to Estimate Likelihood to Purchase a Financial Product

[LINK TO PROJECT](#)

SPRING 2020

- Multi-Parted Project - Part 1: use results and insights from extensive data exploration to prepare data for analysis - Part 2: estimate several models and assess performance with model-agnostic methodology that enables to compare "glass-box" and "black-box" models - Part 3: fit one final model combining findings from exploratory analysis and insight from models' selection and use it to run a revenue optimisation