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I am on the journey towards a career in data science, analytics, and statistics. I am looking for the best place to apply my knowledge from my degree in psychology and doctorate that focused on health communication, public health, and behaviour science. I enjoy the process of scientific inquiry and solving challenging problems. I am constantly learning and thrive in a challenging but supportive environment.

Skills_

DATA SCIENCE

• Exploratory data analysis, machine learning and regression analysis {caret, tidymodels, car, lme4}, data wrangling {tidyverse, data.table}, dashboard development {shiny}, data visualization {ggplot2, plotly}, classification {tidymodels}, computerised text mining {quanteda, tidytext}, continuous deployment {netlify}, reproducibility {rmarkdown, renv, virtual environments}

APPLICATIONS

• RStudio, Visual Studio Code, SPSS, Tableau, Excel, Qualtrics

LANGUAGES

• R {ggplot2, Shiny, data.table, tidyverse, tidymodels, quanteda, tidytext, caret, car}, SQL {Postgre}, Git {GitHub, GitLab}, Python {pandas}, RMarkdown, latex, CSS

Experience

KantarLondon, England

DATA SCIENTIST 2021 - ongoing

- Working as part of the Expert Solutions team with clients in the FMCG sector.
 - learning and developing further as a data scientist, gaining industry experience, getting excited about new challenges
 - working with structured, untidy, and large data
 - developing bespoke solutions for clients, such as market structures through the use of hierarchical clustering algorithms
 - using other tools such as Git, AzureDevOps, SQL

Department of Health and Social Care

London, England

2020 - 2021

• I was working as an Statistician in the DHSC Social Care Data and Analysis team since September 2020 until October 2021.

- I was responsible for delivering situational reports and statistical support for briefings in collaboration with policy colleagues and the Test and Trace programme. I contributed to the quality assurance of analyses across the team and promoted data science using R programming language.
- Examples of my work:
 - automated reporting in R for flu immunisation status of residents and staff at care homes in England
 - reproducible analytical pipeline (RAP) to draw and access Care Home data from a JSON feed
 - RAP to extract and process data from the Office for National Statistics (the ONS)
 - advanced visualisations regarding numerous ad-hoc request across topics such as flu immunisation, survey response rates, or covid incidence
 - quality assurance of reports, statistical analyses, and figures

Assessment Systems International a.s.

Remote

SHINY R DEVELOPER

2018 - 2019

- I worked under contract to develop an R application with a Shiny front-end for machine-learning-driven assessment of candidates based on psychometric data, and I,
 - created a proof-of-concept that was accepted for further development
 - wrote the client-side components
 - designed and implemented a web UI in Shiny that enabled interactive navigation through the ML-model-building process and enabled the user to save and reuse the resulting model
 - coordinated project management remotely with the client using agile methodology
- The application drew on R packages to provide feature selection methods, classification and regression algorithms, and ensemble models, specifically elastic net models (glmnet), tree-based models (rpart), support vector machines (svmRadial), random forest (rf), neural networks (nnet), and k-nearest neighbour (knn)
- The application enabled the client to engage consultants with no programming experience and increased the effectiveness of the assessment process

PHD 2017 - 2021

 My research looked into improving the routine feedback letters with height and weight results delivered to all parents with Reception and Year 6 children as part of the National Child Measurement Programme (the NCMP) in England

- The project engaged multiple stakeholders such as Local Government, Public Health England, and parents, and provided nuanced insights into the NCMP, throughout the project I,
 - developed three complex studies using qualitative and quantitative methods
 - gathered opinions of 92 Local Government Authorities in England about how they use the NCMP and provided the results to the Public Health England as evidence for further improvement
 - prepared cluster randomised controlled trial and stratification procedure with reliance on clustering utilising k-means
 - developed a new version of the feedback letters which resulted in improvement of parental perceptions about the letters
 - used computerised text analysis techniques on a vast corpus of text data. For example, sentiment analysis, topic modelling (LDA), hierarchical clustering
 - used Google Natural Language Processing speech-to-text API to automatically transcribe all the interviews
- · I became experienced with content analysis, literature and evidence reviews, and contributed to the writing of reports and journal articles
- · I presented my findings at,
 - UKCO, Newcastle upon Tyne, England United Kingdom, September 2019
 - Public Health England Annual Conference 2018, University of Warwick, UK
 - Weight Stigma Conference, Leeds, UK, June 2018
 - UKCO, Newcastle upon Tyne, England United Kingdom, June 2018

Influencer.cz Prague, Czechia

 Marketing Analyst
 2013 - 2017

- As a marketing researcher executive, I was primarily responsible for the management of social media pages, content creation, and copywriting
- My clients were OZP (the third largest insurance provider in Czechia), BMW Mini (car manufacturer), and Centropol (energy and gas supplier), for these clients I.
 - prepared engaging content for their pages which led to an increase in sales and engagement of the page visitors
 - developed a transparent marketing strategy and content plans that are still used by the clients
 - provided long-term content plans that engaged their customers and facilitated sales
- Some other clients I have worked with were Lexus (car manufacturer), NKC (a non-profit organisation for the representation of woman in STEM), for them I.
 - provided an analysis of their marketing strategy and content
 - conducted customer segmentation using R and latentclass modelling
 - developed descriptive reports using ggplot2 and RMarkdown proposing a suitable marketing strategy

University of Cambridge

Cambridge, England

VISITING RESEARCHER

2015 - 2016

- I joined the Policy Research Group at the University of Cambridge as a visiting researcher under the supervision of Dr Kai Ruggeri. As a member of the group I,
 - developed infographics, reports, and presentations for the Safer Care Pathways in Mental Health Services project supported by The Health Foundation (https://cli.re/rwmbWR)
 - assisted with data collection and development of a database containing Issue-Based Industry Collectives in the alcohol industry and their characteristics for Dr Jochem Kroezen (https://cli.re/Zejkxx)
 - helped to design the Health@Work (H@W) questionnaire for an organisational setting that aimed to match employees' views on health and wellbeing to those of employers'
 - assisted with data collection of Pro Bono activities of U.S. Law firms for Dr Lionel Paolella
 - attended policy lectures and MBA courses in microeconomics

Junior Research Programme

Europe

JUNIOR DATA ANALYST

2014 - 2015

- I have joined a team of early-career researchers in the position of Junior Data Analyst and collaboratively developed a project focusing on Obesity discrimination in the Workplace supervised by Dr Stuart Flint
- The project was disseminated as a journal article (https://cli.re/JpW7k5)
- Our work was featured in the following media:
 - https://cli.re/Qm54PB
 - https://cli.re/mqrM2P
 - https://cli.re/b1x17e

Courses_

Online

https://www.datacamp.com

DATACAMP

2018 - ongoing

• Structural Equation Modeling with lavaan in R, Factor Analysis in R, Machine Learning with caret in R, Multiple and Logistic Regression in R, Reporting with R Markdown, Exploratory Data Analysis in R, Data Visualization in R, Intermediate R

Course Leeds, England

University of Leeds 201

• Summer School of Causal inference with observational data: the challenges and pitfalls (5 days course). This five-day summer school offered state-of-the-art training in the analysis of observational data for causal inference. By exploring the philosophy and utility of directed acyclic graphs (DAGs) participants learn to recognise and avoid a range of common pitfalls in the analysis of complex causal relationships, including the longitudinal analyses of change, mediation, nonlinearity and statistical interaction

Online https://cli.re/5Azz8D

AGROCAMPUS OUEST 2017

• Exploratory Multivariate Data Analysis (MOOC) by Franã§ois Husson, Professor of statistics. The course focused on four essential and basic methods: principal component analysis (PCA) to handle quantitative variables, correspondence analysis (CA) and multiple correspondence analysis (MCA) to handle categorical variables and clustering, and an extension to Multiple Factor Analysis (MFA) to analyse a more complex dataset that is structured by groups

Course Leeds, England

LEEDS BECKETT UNIVERSITY

2017

• Understanding statistics and data analysis in R. This five-day course led by Professor Clive Beggs aimed to equip students and staff with the understanding necessary to undertake post-graduate research. The course covered topics such as variance & probability, parametric hypothesis testing, non-parametric testing, generalized linear models, bootstrapping & Monte Carlo techniques, and introduction to machine learning.

Course Cambridge, England

University of Cambridge

2016

Certified IRT and CAT course using Concerto at Psychometric Centre (3 days course). This course focused on producing online state-of-the-art
psychometric tests, as well as an introduction to the Item Response Theory (IRT), Computer Adaptive Testing (CAT), and the open-source online
adaptive test development platform, Concerto

Community_

Leeds R Meetups

Leeds, England

CO-ORGANISER 2019 - 2021

- · As an R enthusiast, I have been involved in organising the R meetups in Leeds
- https://cli.re/E59kPe

Leeds Beckett R Meetups

Leeds, England

ORGANISER

2019

2018

• I held a series of R meetups to provide R training to other PhD students, and supported the statistical analysis that was essential for other research projects.

Qualtrics workshops Leeds

LECTURER

Delivering a series of free consideration and a series of a series of the se

Delivering series of free workshops about survey development for research staff at Leeds Beckett University

Education

Leeds Beckett University

Leeds, England

PHD degree, Public Health 2017 - 2021

Charles University Prague, Czechia

Master's degree, Psychology 2013 - 2016

Charles University Prague, Czechia

Bachelor's degree, Psychology 2010 - 2013