# Harry Ritchie: Data Scientist Data Science needs solid direction. Too often, we're lead astray by the buzz and hype of Data Science. I'm here to make it wholesome again. View on GitHub Download .zip Download .tar.gz

# **Harry Ritchie: Data Scientist**

# Links

LinkedIn

# **Professional Experience**

### Ottobock GmbH iFab: Data Analytics Expert 02/2021 - Current

- Developed on existing 3D scanning technology by using Machine Learning models to improve quality and resolution of an affordable 3D scanner.
- Improved testing of 3D scanning products for orthotics by developing an automation platform that allows medical professionals to automate statistical analyses for a variety of prosthetics and orthotics.
- Lead and drove the implementation of a 1 million euro research project focused on Industry 4.0 for scan-to-print applications. Our proposed applications generates valuable data to enhance and speed up lower-limb prosthetic fitting process: achieving a one-time patient visit.
- Creation of Data Science strategy within iFab; increasing reproducability, data literacy and assessment of Data Science projects.
- Working closely with partners in France on a cost-effective 3D landmark detection model.

# PREA GmbH: Data Scientist 02/2020 - 02/2021

- Improved real estate listings with the use of Google Places API; generating liveability scores for customers.
- Development of social clusters and designing inferential studies to generate insights: families
  associate with distance from schools and supermarkets. These clusters aided in driving PREA's AI
  engine, Mercury.

### Enduco: Data Science Consultant 09/2019 - 02/2020

Developed and improved SEO advertisement by analysing changes in a popular cycling blog. I
developed a topic model to identify changes in blog topics over periods of three months. The model

helped marketing in identifying current word sets for attracting new customers.

### **DFKI: Data Scientist 01/2017 - 08/2019**

- Implemented a staff planning model by estimating time-to-checkout of customers for a large supermarket chain.
- Identifying user groups to improve staff planning and cater to shoppers based on their specific behaviour. For example, learning from the "small item shoppers": improving their shopping experience by making their quick shop as accessible and pain free as possible; encouraging customers to continue shopping with selected supermarkets.

# **My Toolbox**

Primary Tasks	Common Patterns
Cloud Development (Azure)	<ul> <li>Deployment of Azure Functions</li> <li>Deploying Container Instances and Groups</li> <li>CI/CD Azure Devops Pipelines and automation</li> <li>The L in ETL/ELT pipelines</li> </ul>
Database Tooling	<ul> <li>Deployment of Relational Databases and automation (ARM scripts).</li> <li>DBT modeling for transformation processes to create feature tables for models and descriptive platforms (dashboards, reporting)</li> </ul>
Statistical Modeling	<ul> <li>Question based notebook experiments; shared for full-team transparency.</li> <li>Close communication with domain experts to determine key model metrics and relationships to business goals.</li> <li>Deployment of models as REST APIs: as an Azure Function, or Container Instance.</li> <li>Reporting and communication.</li> </ul>

# **Personal Experience**

# Improv Theater 06/2021 - Current

Currently performing in a variety of teams and independent monologues.

- Team: "Not Boris Johnson",
- Team: "We Don't Do That here"
- Team: "Roses Are Red"
- Character Monologue: "Joahannes Stahl: An Entrepreneur for The Modern Rennaissance Man"

## **Education**

### **MSc Bioinformatics**

University of Saarland 10/2015 - 07/2019

## **BAppSci Biochemistry / Mathematics**

Queensland University of Technology 01/2012 - 07/2015

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