HENRY BERWICK

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## DATA SCIENCE | ANALYTICS | MASTER OF MATHEMATICS

A highly skilled Data Science professional, proficient in data analysis and visualisation, SQL, and Python, including statistical concepts for AB testing, multiple machine learning and deep learning algorithms, and use of AWS to build, train, and deploy models. A proven track record of optimizing tools and processes for users via data-driven improvements and experienced in developing and presenting outputs to senior leadership and customers, including live broadcast analysis. With a first-class Master of Mathematics, plus professional data science and business analytics certifications, excels at solving complex business problems through innovative data solutions and passionate about continuing to learn and drive further business impact.

## KEY SKILLS

**Programming:** Python (Base, Pandas, Numpy, Matplotlib, Scikit-Learn, Keras), SQL, HTML, CSS

**Machine Learning:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, K-Nearest Neighbours (KNN), K-Means Clustering, PCA, Association Rule Learning, Causal Impact Analysis

**Deep Learning:** Artificial Neural Network, Convolutional Neural Network

**Other:** AB Testing, Statistics, AWS, Tableau, Power BI, Jupyter Notebook, GitHub, Advanced Excel, Agile, Problem Solving, Leadership, Product Development, Project Delivery, Business Partnership

## EXPERIENCE

### Data Science Professional Development Programme 02/2024 – Present

Data Science Infinity & Codecademy

* Enhanced my Data Science skillset through self-paced learning and the completion of several projects which showcase how these skills can be used to solve business problems. See these projects [here](https://hjberwick.github.io/).
* Employed techniques for extracting, manipulating, analysing, and visualising data using SQL, Python, and Tableau, as well as utilising GitHub for version control, and collaboration.
* Applied statistical concepts, such as hypothesis tests, for measuring the effect of AB Tests.
* Implemented data preparation steps for Machine Learning including handling missing values, outliers, categorical variable encoding, feature scaling, feature selection, and model validation.
* Applied Machine Learning and Deep Learning algorithms, including the use of pipelines to streamline the preprocessing and modelling phase, as well as deploying to a live website using Streamlit.
* Utilised a broad suite of AWS services, including IAM, RDS, DynamoDB, S3, Lambda, EC2, and SageMaker to conduct data analysis and build, train and deploy Machine Learning models.

### Senior Product Manager 08/2022 – 01/2024

FIS

* Owned the end-to-end portfolio process and tooling, managing end user relationships and prioritisation of a backlog to improve usability, performance management and decision making.
* Analysed cycle times and bottlenecks over time, combining with user feedback to optimise processes and internal tooling to simplify the user journey by 60% and decrease time to revenue.
* Directed development of new iterative capital planning approach to drive enhanced agility to market conditions, improve strategy alignment, and strengthen capacity planning.

### Product Manager 01/2021 – 07/2022

FIS

* Conducted organisation wide survey, followed by detailed data analysis and presentation of results to senior leadership, to successfully garner buy-in for new portfolio management process and tools.
* Spearheaded implementation of new portfolio management tools across 2 of FIS’ 3 segments, rolling out to ~2000 users and migrating data linked to more than $0.5B of investment in over 700 products.
* Regularly collaborated with stakeholders to understand their problems, refine requirements, hold retrospectives, demo functionality or train users, including interactive sessions to over 350 users.

### Portfolio Manager 11/2019 – 01/2021

Worldpay

* Evolved the cross-portfolio prioritisation of initiatives, optimising up to $0.5B of annual investment in line with business and architectural strategy, through an increase in objective, data-driven analysis.
* Managed the Global eCommerce portfolio, focussing on modernisation and geographic expansion.
* Implemented Scaled Agile Framework (SAFe) as part of an enterprise transformation, working closely with industry experts to adapt and optimise Lean Portfolio Management (LPM) processes.

### Portfolio Analyst 10/2018 – 11/2019

Worldpay

* Developed models and dashboards using Excel and SharePoint for regularly recurring scenario analysis, prioritisation, capacity allocation, financial forecasting, and project reporting.
* Collaborated with senior stakeholders and budget owners to consolidate global annual capital plans, using financial forecasts and resource capacity modelling to inform viability, and hiring plans.

### Change Management Consultant 07/2017 – 10/2018

Grayce Britain Ltd

* Supported a portfolio of close to 30 projects at Worldpay prior to a permanent transition.
* Created and maintained roadmaps for up to 15 eCommerce and compliance development trains.
* Chaired the Change Control Board, tailored project governance, and facilitated stage gate approvals.

### Team Leader 04/2016 – 03/2017

Hawk-Eye Innovations Ltd

* Managed teams of up to 12 people at tennis tournaments across the globe, including centre court at the French Open Grand Slam and the multi-court Shanghai ATP Masters 1000.
* Led calibration and operation of optical tracking software to ensure accurate system performance.
* Developed data insight tools for academies and elite level players using HTML, CSS, and JavaScript.

### Systems Operator 01/2015 – 03/2016

Hawk-Eye Innovations Ltd

* Used statistical analysis and data visualisation to produce in-game, tactical narratives, digestible for wide ranging audiences, for live broadcast on Eurosport, Tennis Channel, ESPN, and the BBC.
* Built trusted relationships with tournament officials and broadcast directors to deliver Hawk-Eye’s Electronic Line Calling system reliably and accurately across global, elite level tennis tournaments.

## EDUCATION

* **MMath (Master of Mathematics): First Class (Hons)** - University of Durham

## CERTIFICATIONS

* **Data Science Professional** - Data Science Infinity
* **Business Analytics: Decision Making Using Data** (Executive Education Programme) - University of Cambridge, Judge Business School
* **Gold CREST Award** (C++, Nonlinear Dynamics, Chaos Theory, Game Theory) - University of Manchester, Nuffield Science Bursary Scheme
* **Certified Product Manager, Level V** (Foundations, Focus, Design, Build, Market) - Pragmatic Institute
* **SAFe Product Owner/Product Manager, SAFe Agilist (Leading SAFe)** - Scaled Agile, Inc
* For a complete list of certifications, please see [LinkedIn](https://www.linkedin.com/in/henry-berwick/).