HENRY BERWICK

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DATA SCIENTIST | ANALYTICS | MACHINE LEARNING | MASTER OF MATHEMATICS

* 9+ years of experience in Data Analysis and 3+ years in Product Management.
* Proficient in SQL, Python, Tableau, and AWS for conducting data analysis and visualisation, A/B testing, and to build, train and deploy Machine Learning and Deep Learning models.
* Led the implementation of new portfolio management tools, impacting $0.5B of investment, using data analysis to streamline the user journey by 60% in the 18 months post launch.
* First-class Master of Mathematics, plus Data Science and Business Analytics certifications.

KEY SKILLS

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

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

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

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

EXPERIENCE

Data Science Infinity

Data Science Professional Development Programme 02/2024 – 08/2024

* Completed 11 projects, with a focus on driving business value ([my project portfolio](https://hjberwick.github.io/)).
* Extracted, manipulated, analysed, and visualised data using SQL, Python, and Tableau.
* Utilised GitHub for version control and collaboration.
* Applied statistical concepts, such as hypothesis tests, to measure the effects of A/B testing.
* Executed data preparation steps for Machine Learning, including handling missing values, outliers, categorical variable encoding, feature scaling, and feature engineering.
* Applied Machine Learning and Deep Learning algorithms, used pipelines to streamline the pre-processing and modelling phase, and deployed 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.

FIS

Senior Product Manager 08/2022 – 01/2024

* Owned the end-to-end portfolio management process and tools, and maintained end-user relationships, while enabling improved usability and data-driven decision making.
* Directed development of a new capital planning approach to enhance agility, improve strategy alignment, strengthen capacity planning, and reduce wasted effort by 40%.
* Analysed cycle times and bottlenecks over time, combining with user feedback to optimise processes and tooling to simplify the user journey by 60% and decrease time to revenue.

Product Manager 01/2021 – 07/2022

* Conducted detailed data analysis and presented the results of organisation wide surveys to senior leadership to successfully acquire the investment to upgrade internal tooling.
* Spearheaded implementation of new portfolio management tools across 2 of FIS’ 3 segments, launching to ~2000 users and migrating data linked to over $0.5B of investment.
* Collaborated with stakeholders to identify their problems, refine requirements, hold retrospectives, demo functionality, and run interactive training sessions to over 350 users.

Worldpay

Portfolio Manager 11/2019 – 01/2021

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

Portfolio Analyst 10/2018 – 11/2019

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

Grayce Britain Ltd

Change Management Consultant 07/2017 – 10/2018

* Supported a portfolio of 30 projects to ensure the required quality of delivery within budget.
* Created and maintained roadmaps for 15 eCommerce and compliance development trains.
* Chaired change control boards, tailored project governance, and approved stage gates.

Hawk-Eye Innovations Ltd

Team Leader 04/2016 – 03/2017

* 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 system to ensure accurate performance.
* Developed data insight tools for academies and elite players using HTML, CSS, and JavaScript.

Systems Operator 01/2015 – 03/2016

* Produced statistical analysis and data visualisation to support tactical narratives, digestible for wide ranging audiences, for live broadcast on Eurosport, ESPN, and the BBC.
* Built trusted relationships with tournament officials and broadcasters to successfully deliver data analytics and officiating services 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
* **Product Manager, Level V** (Foundations, Focus, Design, Build, Market) - Pragmatic Institute
* **SAFe Product Owner/Product Manager, SAFe Agilist (Leading SAFe)** - Scaled Agile, Inc
* **Gold CREST Award** (C++, Nonlinear Dynamics, Chaos Theory, Game Theory) - University of Manchester, Nuffield Science Bursary Scheme