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

Data Science Python Machine Learning Data Analytics SQL Deep Learning Data Visualisation Amazon Web Services (AWS) Project Management Product Development A/B Testing Stakeholder Management

EXPERIENCE

Data Science Infinity

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

* Applied skills in SQL, Python, and AWS services such as RDS, DynamoDB, S3, Lambda, EC2, and SageMaker, for data analysis and to build, train, and deploy Machine Learning models.
* Produced an earthquake tracking dashboard using Tableau to enable better analysis and visualisation of global earthquake patterns.
* Applied A/B testing to assess the performance of promotional mailers, establishing that a higher cost and quality variant did not yield a statistically significant increase in signup rate.
* Created a Machine Learning regression model to predict customer loyalty and improve the accuracy and relevancy of customer tracking, targeting, and communications.
* Employed Causal Impact Analysis to quantify the sales uplift of customers that signed up to a new membership scheme, following an earlier promotional campaign.
* Built and optimised a Deep Learning model, using a Convolutional Neural Network to classify images of fruits to help a grocery retailer scale their sorting and delivery processes.

FIS

Senior Product Manager 08/2022 – 01/2024

* Owned the end-to-end portfolio management process and tools, communicating closely with stakeholders across 16 different functions to enhance 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 acquire the investment to upgrade internal tooling.
* Spearheaded implementation of new portfolio management tools to integrate 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 analysis to optimise up to $0.5B of annual investment in line with business and architectural strategy.
* Managed the eCommerce portfolio to within 2% of a $65M budget, adapting Lean Portfolio Management (LPM) processes to deliver effectively within a Scaled Agile Framework (SAFe).

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 capital plans worth $300M, using financial forecasts and resource capacity modelling to inform viability and hiring plans.

Grayce Britain Ltd

Change Management Consultant 07/2017 – 10/2018

* Governed a portfolio of 30 projects, including chairing change control boards, to ensure successful delivery within the appropriate quality, schedule, and budget constraints.
* Presented roadmaps to executives to prioritise work for 15 eCommerce development trains.

Hawk-Eye Innovations Ltd

Team Leader 04/2016 – 03/2017

* Managed teams of up to 12 people at professional tennis tournaments, such as the French Open and Shanghai ATP Masters 1000, leading the calibration and operation of optical tracking systems to ensure accurate delivery of officiating and data analytics solutions.
* 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 visualisations to establish tactical narratives, digestible for non-technical 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

ADDITIONAL SKILLS

**Technical:** Pandas, NumPy, Matplotlib, Scikit-Learn, Keras, Tableau, Power BI, Jupyter Notebook, GitHub, Docker, Cloud Computing, HTML, CSS, Advanced Excel, Statistics

**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, Artificial Neural Network, Convolutional Neural Network

**Non-Technical:** Communication, Problem Solving, Leadership, Business Partnership, Agile