HENRY BERWICK

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DATA SCIENTIST | ANALYTICS | MACHINE LEARNING | MASTER OF MATHEMATICS

* 10+ 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.
* Implemented a new portfolio management platform for 2000 users, using data analysis to optimise the prioritisation of $0.5B of investment and drive efficiencies of up to 60%.
* Led the calibration and operation of computer vision software to deliver data analytics and officiating services to professional tennis tournaments and broadcasters across the globe.

KEY SKILLS

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

EXPERIENCE

Data Science Infinity & Codecademy

Data Science Professional Development, Analytics & Machine Learning 02/2024 – Present

* Applied skills in SQL, Python, Tableau, and AWS services such as SageMaker, to conduct data analysis, data visualisation, and to develop and deploy Machine Learning models.
* Produced Tableau dashboards, including for the visualisation of global earthquake patterns.
* Applied A/B testing to assess the effect of promotional mailers on loyalty club signup rates.
* Created a Machine Learning regression model to predict customer loyalty and improve the accuracy and relevancy of customer tracking, targeting, and communications.
* Developed pipelines for data pre-processing and modelling before deploying using Streamlit.
* Employed Causal Impact Analysis to quantify a 41% sales uplift for customers that signed up to a new membership scheme, following an earlier promotional campaign.
* Built and optimised a Convolutional Neural Network, using Deep Learning to classify product images with 98% accuracy to enable a retailer to scale their sorting and delivery processes.

FIS

Senior Product Manager, Strategy and Transformation 08/2022 – 01/2024

* Owned the end-to-end portfolio management process and platform, 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, Strategy and Transformation 01/2021 – 07/2022

* Conducted organisation wide surveys using Qualtrics, presenting the results of detailed data analysis to senior leadership to acquire the investment to upgrade internal tooling.
* Designed and implemented a new portfolio management platform 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, develop solutions, demo functionality, and run interactive training sessions to over 350 users.

Worldpay

Portfolio Manager 11/2019 – 01/2021

* Built a data-driven cross-portfolio prioritisation model to optimise up to $0.5B of annual investment in product development 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

* Collaborated with budget owners to consolidate capital plans worth $300M, using financial forecasts and resource capacity modelling to analyse and inform viability and hiring plans.
* Developed dashboards using Excel to improve financial forecasting and project reporting.

Grayce Britain Ltd

Project Analyst, Change Management Consulting 07/2017 – 10/2018

* Modelled resource supply and demand to prioritise roadmaps for 15 development trains and multiple shared service teams, presenting monthly results to executive leadership.
* Governed a portfolio of 30 projects, including chairing change control boards, to ensure successful delivery within quality, schedule, and budget constraints.

Hawk-Eye Innovations Ltd

Team Leader, Data Insights and Officiating 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 computer vision software 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, Data Insights and Officiating 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 Scientist: Machine Learning Specialist** - Codecademy (in progress)
* **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, GitHub, Data Pipelines, Computer Vision, Jupyter Notebook, 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 Networks, Convolutional Neural Networks

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