

Nick Hughes

Analytical | Agile | Perceptive | Tenacious | High Emotional IQ

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Product manager-turned-quant leveraging AI and ML to predict, automate and innovate around the challenges of today.

PERSONAL PROJECTS

Automated Trading Program — Remote

1 Year; 2022-Present

- Built an AutoML pipeline with genetic programming to engineer custom features, build predictive models and select optimal trading strategies. Live, automated trading deployed via Interactive Brokers' 3rd party APIs.
- Methods: DEAP, AutoKeras, Monte Carlo's, sklearn.feature_selection.RFECV, RandomForest feature ranking

RESEARCH EXPERIENCE

Modeling Team Coordinator — *FruitPunch AI*; Remote

3 Months; 2023

- Built an NLP model to categorize & quantify emissions of bank transactions.
- Utilized text embedding and transfer learning with an ensemble RNN /rule based classification method.

Team Lead; Research Fellowship — *The World Bank*; Remote

6 Months; 2022

- Consulted on quantifying refugee aid program effectiveness in Burundi (beneficiary population: 2+ million).
- Facilitated client communications, bi-weekly updates and internal workflow assignment.
- Designed and co-authored a research paper that estimated heterogeneous treatment effects across refugee demographics using logit and causal forest models with double machine learning. [Link to Paper](#)

EMPLOYMENT

Product Manager — *Backroads*; Europe & The Americas

5+ Years; 2017-2022

- Served as client-facing product manager for week long active travel trips for c-suite clientele.
- Ad-hoc problem solving while managing collaborations between internal and external multicultural teams.
- Extensive stakeholder and client engagement experience: assuring positive customer experiences, facilitating presentations, setting expectations, partner recruitment, contract negotiation and onboarding.
- Leveraged performance data to identify trends and drive product improvement by 17% in my first year.

Environmental Advocate — *ASUO*; Eugene, OR

2 Years; 2012-2014

- Developed responsible procurement and waste management practices for University of Oregon events.

EDUCATION

California Polytechnic State University

San Luis Obispo, CA

Master of Science: Quantitative Economics

Graduated June 2022

*4.0 GPA and Academic Honors

Relevant Coursework: Advanced Econometrics I & II, Economic Research & Communication, Computing and Machine Learning for Economics, Dynamic Stochastic Modeling, Microeconometrics, Evidence-Based Decision Analysis, Machine Learning for Prediction and Causal Inference.

University of Oregon

Eugene, OR

Bachelor of Science: Environmental Studies

Graduated June 2014

*3.85 GPA and Departmental Honors

-Senior Thesis: Climatic Risks Impacting National Food Security

TECHNICAL SKILLS & CERTIFICATIONS

- Python, Tensorflow, SQL, Excel, R, Git, AWS
- Neural Nets, NLP & LLM Models, Machine Vision, AutoML, OpenAI APIs
- PADI SCUBA Divemaster
- AIARE Avalanche Safety I Certified

LANGUAGES

English: Native

Spanish: Professional Working Proficiency

Portuguese: Currently Learning

GLOBAL EXPOSURE

Latin America: 3+ Years

Europe: 2+ Years

SE Asia & Oceania: 5 months

Africa: 2 Months