

# ALEXANDER AMARI

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## EDUCATION

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### YALE UNIVERSITY

#### Master of Business Administration (MBA)

- Dean's Scholarship

New Haven, CT

2025

### OXFORD UNIVERSITY

#### Master of Science (MSc), Social Data Science

- Distinction (Highest Academic Honors)

Oxford, UK

2019

### RICE UNIVERSITY

#### Bachelor of Arts (BA), Philosophy, Politics, and Economics | Statistics Minor

- Magna Cum Laude, Phi Beta Kappa, President's Honor Roll, Rich Family Award for Civic Engagement

Houston, TX

2018

## PROFESSIONAL EXPERIENCE

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### YALE UNIVERSITY

#### Research and Teaching Fellow

New Haven, CT

2024 - Present

- Won Yale grant to develop novel AI content detection platforms, aimed at distinguishing real content from diffusion model "deep fakes" and specific LLM model lineages in generated texts
- Built and curated datasets of 20,000 diffusion model images and 2.4M tokens of synthetic text using OpenAI, Anthropic, DeepSeek, Stable Diffusion, and other APIs for model training with PyTorch
- Trained models to achieve ~93% classification accuracy on specific diffusion model lineages and ~80% on specific source LLMs, deployed as public LLM text detector on Hugging Face
- Appointed as only Yale SOM student to serve as teaching fellow in Statistics & Data Science, teaching and mentoring ~100 graduate and undergraduate students in data science, machine learning, and Python programming across three courses during fall 2024 and spring 2025

### IBM

Austin, TX

#### Data Scientist, Senior Data & AI Content Lead

2020 - 2023

- Developed 20+ original data science and machine learning courses for enterprise clients and public, achieving 4.8/5 average reviewer scores across ~370,000 learners
- Managed content development (coding workshops, product tutorials, and small team coaching) and distribution through IBM Cloud for data science teams at two IBM global elite clients, representing ~\$2.8MM in training contracts over three years
- Selected as one of two first-year employees in division (~2,000 people) to live-deliver original Python workshop, "For Coders and Non-Coders: Break into Deep Learning with Python and IBM Watson Studio," scaling from ~50 client teams to ~120,000 attendees at IBM Think 2021 conference

### DELOITTE

London, UK

#### Deep Learning Researcher (Contract)

2019

- Selected as one of 8 UK graduate students out of ~1,000 applicants to conduct applied machine learning research for Deloitte London in-semester alongside Oxford master's coursework
- Developed dropout-regularized autoencoder ensembles (neural networks) with TensorFlow for outlier detection in financial fraud prevention applications, outperforming firm's proprietary platform by ~15% in two client use cases

## ADDITIONAL INFORMATION

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- **Writing:** Since 2016, authored 20+ articles and tutorials on AI, machine learning, policy and business for platforms including Forbes, Huffington Post, and The Hill. Accumulated over 2M unique reads, including top-performing article on NLP applications in business (Open Data Science Conference, 2018)
- **Volunteering:** Programming instructor and mentor for underserved students (2019-2023), Founder and leader of 501(c)(3) photography/videography nonprofit in Houston, TX (2015-2018)
- **Personal Interests:** Photography, motorcycling, scuba diving, video gaming