

# Ethan M Roberts

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## Goal

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Full stack data professional and aspiring data scientist with a strong foundation in natural language processing, predictive analytics, and machine learning.

## Skills

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**Languages & Packages:** Python, SQL, R, VBA, Pandas, Numpy, Scikit-Learn, NLTK, PyTorch

**Analysis & Methods:** Data Analysis, Statistical Analysis, Machine Learning, Neural Networks, Transformers, Data Modeling, NLP

**Business:** KPI Benchmarking, Process Analysis, Project Management, Power BI, Tableau

## Work Experience

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**Paramark** - Founding Solutions Engineer - *San Francisco, CA* 05/2025 - Current

- Build and maintain end-to-end data workflows for customer marketing datasets, ETL, EDA, ML model training, and performance evaluation
- Collaborate with Prod and Growth teams to translate data into actionable insights, directly influencing product roadmap and customer decision-making

**Georgia Institute of Technology** - Instructional Associate - *Remote, CA* 06/2024 - Current

- Teaching data science, machine learning, and business analytics concepts to entry level students
- Assist in curriculum development and updates, grading, teaching, and monitoring student forums

**Netbase Quid** - Senior Business Analyst - *Santa Clara, CA* 11/2021 - 11/2024

- Developed, validated, and deployed forecasting machine learning models in Python, reducing average error from +16% to +1.5%
- Identified waste in forecasting process through data collection, exploration and financial model prototyping leading to a more scalable process, reducing time spent on forecasting tasks by 80%
- Owned finance forecasting, developed and maintained kpis, and presented to C-suite and senior staff
- Coordinated new Professional Services strategy among cross-functional teams, leading to a 50% reduction in time spent processing and a 90% reduction in by-hand errors

**iPayables, Inc** - Revenue Operations Analyst - *Aliso Viejo, CA* 4/2019 - 10/2021

- Developed and implemented A/B experiments (DOE) for marketing assets, resulting in an increase of click-through rates from 5% to 13% on ads, and 15% to 22% on whitepapers
- Formalized GTM reporting and data storage, leading to a sales pipeline increase of over 20%, and a 541% increase in leads

## Projects

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[Breaking Grad\(ients\)](#) - This Deep Learning project explores the effects of Fast Gradient Sign Method attacks on pre-trained models such as EfficientNet, Data Efficient Image Transformers, and our custom CNN. We show how these models react to FGSM when discriminating between AI generated and naturally generated images.

[Pokemon Team Generator](#) - This Streamlit tool utilizes the Pokebase API to gather detailed Pokemon data, comparing to user inputs and giving a team of Pokemon based on personality matches. The project utilizes NLP techniques such as Bag of Words (BoW), Term Frequency-Inverse Document Frequency (TF-IDF), BERT, GloVe.

## Education & Awards

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**Georgia Institute of Technology** - Master of Science – Analytics

**Brigham Young University Hawai'i** - Bachelor of Science – Computer Science

**Boy Scouts of America** - Eagle Scout