

Ethan Nelson

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PROFILE

Dynamic and versatile machine learning engineer with a background in designing, implementing, and deploying AI solutions. Leadership experience in leading machine learning and data operations initiatives, with technical experience in natural language processing/deep learning, model deployment, and all aspects of the AI lifecycle.



WORK EXPERIENCE

08/2023 – PRESENT REMOTE, UNITED STATES

Machine Learning Engineer | Data Ops Student

- Spearhead the design and implementation of end-to-end machine learning and data operations pipelines, resulting in 5 model endpoints served to over 40,000 users.
- Increasing data ingestion by 500% by designing and implementing SQL data warehouses, and efficient data pipelines
- Architect automated workflows for the training, evaluation and deployment of machine learning models in production environments.
- Develop and fine-tune NLP algorithms, including LSTMs and transformers, implementing a real-time alert system for engineering teams on bug-related issues within the platform.
- Integrate large language models to interpret student performance data dynamically, enhancing learning outcomes through adaptive model responses.
- Leading company research initiative. Originally conducted research and proposed ten AI methodologies to enhance platform functionality, culminating in the acceptance of two projects.

01/2022 – 08/2023 REMOTE, UNITED STATES

Senior Data Analyst iProspect

- Lead efforts in automation of data delivery by architecting new ETL pipeline logic and managing team of data engineers. New pipeline increased efficiency in runtime over legacy pipeline by 250%.
- Leveraged strong communication skills to address ad-hoc client requests, utilizing Python, SQL, and data transformations to revamp dashboards. Enhanced visibility of key performance indicators (KPIs) and streamlined reporting processes.
- Built scripts to transform and join data to help case study dealing with 50% unattributed data points.



WORK EXPERIENCE

05/2021 – 12/2021 MIDDLEBURG, UNITED STATES

Software Engineer ARCTEC Solutions

- Developed automation scripts for remote software installation, reducing manual setup time by 50% and enhancing operational efficiency.
- Designed a data dissemination tool that aggregates data from APIs and remote databases, facilitating seamless integration into a local database for analysis.
- Enhanced a signal intelligence device to optimize packet transmission to external applications, improving data communication and processing capabilities.



EDUCATION

09/2022 – PRESENT ATLANTA, UNITED STATES

Interactive Intelligence | Masters of Science Georgia Institute of Technology

Natural Language Processing, Knowledge based Artificial Intelligence, Machine Learning, Quantum Computing, Human Computer Interaction, Machine Learning for Trading.

04/2018 – 08/2021 REXBURG, UNITED STATES

Computer Science | Bachelor of Science Brigham Young University



VENTURES

02/2023 – 08/2024

Co-Founder AMY AI

- Developed platform which leveraged LLMs and RAG architecture to optimize communication efficiency in B2C applications.



SKILLS

Python 3

Torch

NLP

Transformers

Spark/Pyspark

Machine Learning/AI

Databricks

mlflow

Problem Solving

Communication

Leadership