ISHA SLAVIN

CONTACT

(201)321-8589 **phone**
isha.slavin@gmail.com **email**
New York City, NY 10017 **address**

PROFESSIONAL SUMMARY

Adept Data Scientist with a proven track record at McGraw Hill Education, enhancing business solutions through advanced NLP and machine learning techniques. Demonstrated ability to bridge communication gaps between teams, and significantly improve predictive model accuracy. Expertise in Python programming and collaborative problem-solving stands out, showcasing a blend of technical prowess and teamwork excellence.

EDUCATION

Expected graduation May 2025
M.S. Data Science
New York University

June 2022
Completed coursework towards Mathematics
University of California, Los Angeles

EXPERIENCE

July 2022 - Present
Data Scientist
McGraw Hill Education, New York City

- Implement state-of-the-art NLP methods such as chain-of-thought prompting and parameter-efficient fine-tuning (PEFT LoRA, soft prompting) to solve business solutions through prompting and training Generative AI models cost-effectively
- Fine-tune and deploy transformers for custom tasks using HuggingFace estimators & AWS services such as SageMaker, S3
- Build, train, tune, and evaluate proprietary ML models to estimate student knowledge & predict future performance
- Develop a feed-forward neural network from scratch & train it on linguistic features to classify text as AI or human generated
- Bridge the gap between data scientists, data engineers, and SREs through communication & collaboration.

January 2021 - Present
Data Science Intern
McGraw Hill Education, New York City

- Utilize object-oriented programming in Python to design and implement tools to analyze time-series historical student data
- Investigate & analyze millions of records of digital-platform student data in PostgreSQL databases & Databricks Delta Lake.

June 2021 - Present
Research Assistant
UCLA Department of Computational & Applied Mathematics, Los Angeles

- Modify zeroth order state-of-the-art optimization algorithms to transform into Comparison - Based algorithms using Python
- Benchmark algorithms against publicly available functions and tune algorithm hyperparameters through rigorous testing

- Employ Python tools such as SciPy, Numpy, Pandas, etc
- To implement optimization algorithms and generate test functions.

SKILLS

- Machine Learning
- Python Programming

INDEPENDENTPROJECTS

HuggingFace Transformers, New York City, NY, 03/2023 - Present, Fine-Tuning Transformers using Custom Training Scripts, Fine-tune open-source transformers from HuggingFace (LLaMA, T5) computationally & cost efficiently for custom tasks, Generate custom datasets from OpenAI API; distribute training using Data and Model Parallelism in AWS SagemakerLangChain Experimentation, Remote, 04/2023 - Present, Build a basic application using Streamlit and LangChain Framework, Develop a working app to generate assessment questions using Streamlit, LangChain, and the OpenAI LLM wrapperLLM Experimentation, Remote, 03/2023 - Present, Prompt Engineering & Few-Shot Learning, Experiment with Cohere, AlexaTM 20B, Jurassic Jumbo Instruct LLMs on SageMaker JumpStart using few-shot learning, prompt engineering (including Chain-of-Thought & ReAct methods), and parameter tuning