

Patrick Harned

Data Scientist/Machine Learning
Engineer

347-263-0441
pwharned@gmail.com
pwharned.github.io

I am a Data Scientist and Machine Learning Engineer with a passion for NLP and performance computing.

Languages	Frameworks	Platforms	Skills
<ul style="list-style-type: none">Scala/JavaPythonC/C++GoRust	<ul style="list-style-type: none">Pandas/SklearnZioSparkMMLibPyTorchReact	<ul style="list-style-type: none">Hadoop/SparkKubernetes/OpenShiftAWS/GCPLinuxDocker	<ul style="list-style-type: none">Machine LearningGen AIAnalytics/Big DataNLPEmbedded Systems

Career Summary

2019 – present Data Scientist — IBM Expert Labs

Develop and deploy novel AI solutions.

- Developed monitoring platform for LLM workloads on NVIDIA GPUs.
- Develop and research novel techniques for improving computational efficiency of LLM training and inferencing.
Develop high performance inferencing engine for LLMs.
- Fine tune geospatial foundation models and Large Language Models (LLMs) on proprietary data.
- Develop high throughput C++ applications for performing embedded database machine learning to support model drift and explainability analysis on federated data.
- Develop federated data platform for tracking bias across machine learning models deployed to Google Cloud.
- Research applicability of LLMs in machine translation.

2018 – 2019 Data Specialist — Princeton University

Assist research team in producing visualizations, data validation and data quality pipelines, and conducting statistical analysis of Arab Barometer survey data.

- Design and deploy data quality monitoring pipelines in R and Python. Build regression and Random Forest models to analyze survey data and contribute to original research. Perform statistical analysis and quality analysis of survey data. Provide Arabic-English translation assistance.
- Build pipelines for cleaning and managing Arab Barometer survey data to support automated data cleaning.
- Build dashboards, reporting and analytics pipelines. Conducted statistical analysis of Arab Barometer data and contributed to research.

Education

- 2019 Dual Masters of Global Policy Studies and Middle Eastern Studies (University of Texas at Austin)
2015 Bachelors of Arts, Classical Languages (Hunter College, City University of New York)

Languages

Native English, Professional Fluency in Arabic, Conversational in Japanese, German, French and Turkish