

Ignacio Arriaga

Graduate Teaching Assistant, Machine Learning | Machine Learning Engineering Intern

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PROFESSIONAL SUMMARY

Machine learning engineer with a master's in computer science, a summer internship deploying a document classifier to production and a capstone on retrieval-augmented question answering. Comfortable with PyTorch, FastAPI, Docker and SQL, and treats evaluation sets and latency budgets as part of the job rather than an afterthought. Seeking a first full-time ML engineering role.

EXPERIENCE & PROJECTS

School of Computer Science, Three Rivers University · Pittsburgh, PA **Jan 2025 — May 2026**

Graduate Teaching Assistant, Machine Learning

- Ran weekly recitations for a graduate machine learning course, walking students through backpropagation, regularization and debugging training runs that refuse to converge.
- Rewrote two homework autograders in Pytest so they compare model outputs within a tolerance, which cut regrade requests during the spring term.

Allegheny Freight Systems · Pittsburgh, PA

May 2025 — Aug 2025

Machine Learning Engineering Intern

- Fine-tuned a DistilBERT classifier that sorts incoming bills of lading into eleven document types, replacing a brittle keyword rule set used by the billing team.
- Packaged the model behind a FastAPI service in Docker on ECS, keeping median response under 80 milliseconds on CPU instances so no GPU budget was needed.
- Built a labeled evaluation set of 2,400 documents with two operations analysts and wired it into CI, so every retrained model is scored before release.

Course-notes question answering (public GitHub repository)

- Built a retrieval-augmented assistant over 300 lecture PDFs with pgvector and an open-weight 8B model, plus a 150-question test set scoring answer faithfulness and retrieval recall.

EDUCATION

MS, Computer Science **2026**

Three Rivers University

BS, Computer Engineering **2024**

Lake Erie State University

SKILLS

Technical: Python, PyTorch, scikit-learn, Hugging Face Transformers, FastAPI, Docker, SQL, AWS (S3, ECS, SageMaker), MLflow, pgvector, Pytest, Git

Certifications: AWS Certified Machine Learning Engineer – Associate