



# Nicole Alvarez

Lead ML Engineer - Education Technology  
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## SKILLS

TensorFlow • PyTorch • Airflow • ML Ops • MLflow • Kubernetes • Docker • Python • Pandas • NumPy • CI/CD • GCP

## EXPERIENCE

### **Lead AI Engineer** — StellarLearn Innovations

*June 2022 – Present*

Led a cross-functional team of 8 engineers to deploy ML models for personalized learning. Reduced model deployment time by 60% and inference latency by 40% through scalable TensorFlow and Airflow pipelines. Established end-to-end MLOps with MLflow, Docker, and Kubernetes, improving model reliability by 30%.

### **Senior ML Engineer** — EduForge Systems

*March 2019 – May 2022*

Designed and deployed ML-driven student performance analytics using PyTorch and TensorFlow; improved prediction accuracy by 12 percentage points. Built Airflow-based data pipelines for nightly retraining with data lag under 6 hours. Implemented CI/CD for ML models via GitHub Actions and MLflow; mentored 4 engineers.

### **ML Engineer** — BrightPath Education

*July 2016 – February 2019*

Developed NLP-based grading assistant reducing manual grading time by 50%. Created reproducible experiments with MLflow, accelerating iterations by 20%. Collaborated with educators to align models with curriculum constraints.

## EDUCATION

### **M.S. in Computer Science (AI)**

National University of Education

Graduated: 2016