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Carlos A. Bustamante Gaytán

Senior Machine Learning Engineer

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TECHNICAL SKILLS

ML	TensorFlow, Keras, PyTorch, Scikit-learn
Data Stack	Pandas, NumPy, PySpark, SQL
Cloud & MLOps	AWS, Azure, Terraform, Git, Kubernetes, Docker, FastAPI
Programming	Python, MATLAB
Visualization	Matplotlib, Seaborn, Plotly

WORK EXPERIENCE

Senior Machine Learning Engineer January 2026 – Present
Corteza.ai Remote

- Architect and manage scalable AI infrastructure on AWS using Terraform and Kubernetes, overseeing critical services like EKS, ECR, S3, and EC2 Image Builder to ensure production stability.

Machine Learning Engineer September 2024 – January 2026
Corteza.ai Remote

- Led the end-to-end fine-tuning pipeline for internal LLMs, managing the process from codebase/documentation scraping to dataset creation and model training.
- Developed optimized inference scripts for diverse models (object detection, diffusers, LLMs) and integrated third-party APIs (OpenAI, Anthropic) for generative tasks.

Adjunct Professor January 2024 – June 2024
Tecnológico de Monterrey Estado de México, México

- Taught "Design and Development of Applications" (high school), guiding students on programming and electronics projects using the micro:bit platform.

Data Analyst February 2020 – June 2022
Telus International Remote

EDUCATION

Master of Science in Engineering Sciences August 2022 – June 2024
Tecnológico de Monterrey Estado de México, México

- Developed a neural network-based interface for lab practices, leveraging real-time feedback to enhance learning efficiency.
- Published research on an educational tool applying data-driven control methods to non-linear systems using TensorFlow and Arduino.

CERTIFICATIONS

- AWS Certified Generative AI Developer Professional, issued February 2026.
- AWS Certified Machine Learning Engineer Associate, issued September 2024.
- AWS Certified Solutions Architect Associate, issued August 2024.
- Microsoft Certified: Azure Data Scientist Associate, issued July 2024.
- TensorFlow Developer Certificate, issued August 2023.