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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

<b>Senior Machine Learning Engineer</b> <i>Corteza.ai</i>	<b>January 2026 – Present</b> 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.	
<b>Machine Learning Engineer</b> <i>Corteza.ai</i>	<b>September 2024 – January 2026</b> 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.	
<b>Adjunct Professor</b> <i>Tecnológico de Monterrey</i>	<b>January 2024 – June 2024</b> Estado de México, México
• Taught "Design and Development of Applications" (high school), guiding students on programming and electronics projects using the micro:bit platform.	

<b>Data Analyst</b> <i>Telus International</i>	<b>February 2020 – June 2022</b> Remote
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### EDUCATION

<b>Master of Science in Engineering Sciences</b> <i>Tecnológico de Monterrey</i>	<b>August 2022 – June 2024</b> 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.