Carlos A. Bustamante Gaytán
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

Machine Learning Engineer　　　　　　　　　　　　　　　　September 2024 – Present
Corteza.ai　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Remote*

- Lead the end-to-end fine-tuning of an internal LLM, overseeing the full pipeline from codebase/documentation scraping to the creation of datasets and model training.
- Deploy and manage scalable AI infrastructure on AWS with Terraform and Kubernetes, integrating services like EKS, ECR, S3, Route53, and EC2 Image Builder.
- Develop and optimize inference scripts for a diverse range of models (object detection, diffusers, LLMs, anomaly detection) and integrate third-party APIs (OpenAI, Anthropic, ElevenLabs) for generative and TTS 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*

- Analyzed and annotated diverse digital content (video, text, geo-data) to improve training data quality for AI-driven search and recommendation models.

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 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.