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# Carlos A. Bustamante Gaytán

## Machine Learning Engineer

charlyfive.com  
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### TECHNICAL SKILLS

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

### WORK EXPERIENCE

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<b>Machine Learning Engineer</b> <i>Corteza.ai</i>	<b>September 2024 – Present</b> <i>Remote</i>
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- 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.

<b>Adjunct Professor</b> <i>Tecnológico de Monterrey</i>	<b>January 2024 – June 2024</b> <i>Estado de México, México</i>
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- 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> <i>Remote</i>
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- Analyzed and annotated diverse digital content (video, text, geo-data) to improve training data quality for AI-driven search and recommendation models.

### EDUCATION

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<b>Master of Science in Engineering Sciences</b> <i>Tecnológico de Monterrey</i>	<b>August 2022 – June 2024</b> <i>Estado de México, México</i>
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- 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

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- 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.