

Agustin Leon

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EDUCATION

New York University, Tandon School of Engineering

New York City, USA

Master of Science, Computer Engineering

Sep 2024 – May 2026

- GPA: 4.0/4.0
- **Graduate Teaching Assistant** for foundations of computer science course including algorithm design, data structures, operating systems and system architecture. **Taught and mentored cohort of over 200 students.**
- **Courses:** Machine Learning, MLOps, Deep Learning, Foundations of Robotics, Embedded Systems, Computing Systems Architecture. **Upcoming:** Computer Vision, Reinforcement Learning, Transformers-NLP-LLMs.

University of Chile

Santiago, Chile

Bachelor of Science, Economics (distinction)

Mar 2013 – Dec 2017

EXPERIENCE

Associate Research Consultant

Jan 2022 – Sep 2024

GBA ECONOMIC CONSULTING

Santiago, Chile

- Conducted quantitative research for **over 15 projects** for leading national and international companies across industries, including energy, telecom, transportation, intellectual property, antitrust, among others.
- **Delivered presentations** both in English and Spanish for diverse audiences, including C-suite executives.
- **Helped clients achieve over \$10M in savings and increased profits.**
- Top clients included Mastercard, Engie, Cargill, Transelec, LATAM Airlines, DirecTV, Sacyr, and Sonacol.

Research & Data Analyst

Jul 2019 – Dec 2021

MINISTRY OF EDUCATION, GOVERNMENT OF CHILE

Santiago, Chile

- **Led a data science team to develop a machine learning model for student dropout prediction**, integrating high-volume, unstructured, and noisy datasets from multiple government agencies.
- **Increased accuracy from 50% to 80%** compared to the previous naive baseline.
- Model results influenced policy measures to mitigate increased school dropout rates during the pandemic.

Research Intern

Mar 2018 – Aug 2018

MINISTRY OF LABOR, GOVERNMENT OF CHILE

Santiago, Chile

- Improved a work-retirement **simulation model** to track national unemployment insurance fund cash flows.
- Applied econometric and statistical techniques to model nationwide labor dynamics with large-scale datasets.
- **Interacted directly with a central in-house GPU server** to coordinate, schedule, and submit batched training jobs, ensuring efficient resource allocation for the research team.

PROJECTS

ML Projects at NYU | *Python, sklearn, PyTorch, Tensorflow, Docker, Kubernetes, AWS*

Sep 2024 – Present

- **Designed and trained more than 20 ML models** including: regression, K-nearest neighbors, decision trees, ensembles, SVMs, neural networks, CNNs, deep neural networks, unsupervised learning, and reinforcement learning models. Huge interest in MLOps, distributed systems, scaling, and model serving efficiency.
- **Developed a deep understanding of machine learning, statistical, and mathematical concepts**, enabling efficient model tuning and a faster training process. **Familiarity with main ML libraries documentation.**
- **Currently focused on MLOps, developing a large-scale cloud-based MLOps pipeline**, for a music streaming playlist recommender system. The project includes automated data preprocessing, DevOps integration, scalable model training, deployment, and monitoring with MLFlow, integrating SageMaker at various stages.

Certify: yelp-like web application for cars listings | *JavaScript, Node.js, MongoDB*

Jan 2021 – Dec 2021

- Developed from scratch a web application featuring the **listings creation, image uploads, geocluster map, search filters, user reviews system, user authentication, and authorization, including deployment.**
- Implemented a full-stack web application using **JavaScript, Node.js, ExpressJS, and MongoDB**. Designed **RESTful APIs** and implemented security best practices.

TECHNICAL SKILLS

Programming Languages: C/C++, Javascript, Python, R

Tools and Frameworks: PyTorch, Tensorflow, scikit-learn, REST APIs, Git, Numpy, Matplotlib, Matlab, Docker, AWS, GCP, ChameleonCloud, Keras, ONNX, Apache, Node.js, ROS2