# Gabriel Neil

## Lead Machine Learning Engineer

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*Accomplished machine learning engineer with a strong track record of delivering successful projects and driving innovation in machine learning.*

Comprehensive experience designing, developing, and deploying advanced machine learning models and algorithms to solve complex business problems. Well-versed in leading and mentoring cross-functional teams of data scientists and engineers, driving collaboration, and achieving project milestones. Demonstrated success in developing scalable machine learning pipelines, ensuring efficient data processing and model deployment. Excellent communication skills, capable of translating technical concepts to non-technical stakeholders.

## Technical Proficiencies

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| **Languages:** | Python, Java, Golang, Groovy, JavaScript |
| **Development Frameworks:** | Spring Boot, JUnit, Grails, Flask, Fast API, Django, Gin, Spark, Pytest, NodeJS, React, Node-Red |
| **ML Platforms:** | SageMaker, Vertex AI, Kubleflow, ML Flow |
| **ML Frameworks & Tools:** | Scikit-Learn, PyTorch, TensorFlow, Keras, Pandas, Numpy, DVC, Jupyter, Textract, CUDA, Deepstream, Ray |
| **Analytics & Reporting:** | Tableau, Google Analytics, QuickSight |
| **Compute & Networking:** | Kubernetes, Docker, ECS, EC2, ECR, AS, EKS, Fargate, Lambda, API gateway, CloudFront, Route 53, VPC, ELB, GKE |
| **Databases & Storage:** | Aurora, DynamoDB, RDS, Redshift, Redis, EBS, EFS, S3, Glacier, Glue, Athena, EMR, Teradata, Hive, Presto, MySQL, BigQuery, ElasticSearch, MongoDB |
| **Identity, Security:** | Cognito, IAM (AWS & GCP), LakeFormation, SM, RAM, KMS |
| **Messaging & real-time processing/integration:** | EventBridge, SNS, SQS, Step Functions, MQTT, Dataflow, Apache Beam, GStreamer, RTSP streams |
| **APM:** | New Relic, Kibana, Datadog, Grafana, Prometheus, CloudWatch, Sentry |
| **IaC:** | Terraform, CloudFormation |
| **CI/CD:** | GitLab CI/CD, Jenkins |

## Professional Experience

**Teknoir, (Remote)**                                                                                                       2023 – Present
**Lead Machine Learning Engineer**

Played a pivotal role in enhancing the company's machine-learning capabilities and driving significant business growth, by combining technical expertise with strategic business insights, achieving substantial profits.

- Directed the design and development of end-to-end MLOps pipelines for computer vision and time series applications, optimizing workflows to enhance business operations and drive efficiency, supporting over 10 clients across 20 locations.

- Spearheaded the design and optimization of databases tailored to store and manage large volumes of time series data and computer vision models, handling data from more than 1K cameras and 20K sensors.

- Developed and maintained data pipelines, ETL processes, and automation scripts to streamline data flow and improve the accuracy and timeliness of business insights, contributing to an annual profit of approximately $10MM.

Konfío, (Remote)                                                                                                2021 – 2023
**Lead Machine Learning Engineer | Machine Learning Engineer**

Drive ML development roadmaps to ensure successful MLOps capabilities to support production of AI models. Enable production of innovative AI solutions by taking ownership of AI technology roadmap.

- Improved speed of release process of machine learning by 400%.
- Developed end-to-end automated infrastructure pipelines for experimentation, training, real-time, and batch predictions within six months.
- Organized risk and cashflow machine learning models with full impact on investment portfolio of about $1B for loans.
- Collaborated with data engineers for designing, developing, automation, and orchestration of six data pipelines for fraud detection, inflation, cashflows, and risk tier models.

MercadoLibre (MELI Nasdaq), Córdoba - Argentina                                                2020 – 2021
**Machine Learning Focal Point**

Facilitated cross-business unit teams in finding insights into discoveries and ways to implement new ML solutions by serving as Subject Matter Expert for fintech products.

- Spearheaded interaction between business and machine learning areas aimed at defining analytical needs and generating pull-through of insights with business.
- Facilitated five cross-business unit teams in finding insights into discoveries/ways to implement new ML solutions on FinTech products.
- Improved machine learning business metrics to facilitate measurement of the real impact of collections models on USD 88M per month and payment flows on USD 350M per month.

MercadoLibre (MELI Nasdaq), Córdoba - Argentina                                                2019 – 2021
**Data Scientist & Machine Learning Engineer**

Developed, tested, and implemented machine learning algorithms and models to solve complex business problems and extract valuable insights from data.

- Reduced fraud-detected transactions in Brazil by 60% and Argentina by 65% payment flow and prevented USD 1M and USD 2M in profit loss per week respectively by designing and executing real-time machine learning model for fraud prevention.
- Led deployment, testing, and monitoring of fraud API with 100K requests per minute.
- Enabled handling of 80% of customers' communications and inquiries by introducing chatbot PoC via WhatsApp.

MercadoLibre (MELI Nasdaq), Córdoba - Argentina                                                2016 – 2019
**Software Engineer**

Designed, developed, and maintained high-quality software solutions by collaborating with the development team. Contributed to the design and architecture of software systems, ensuring scalability, performance, and maintainability.

- Increased loans from USD 500K to USD 3B in three years by designing and deploying core systems for lending and payment businesses.
- Introduced collections notification systems to notify 1M devices per week.
- Performed experimentation including A/B testing to understand customers' behavior in lending flows for 2M users by designing and executing analytics tracking tools.
- Acted as Integration Engineer with third-party banks and Mercado Libre marketplace with 200M users.

## Education

**Engineer's degree, Information Systems Engineer, 2019** • Universidad Tecnológica Nacional (UTN)

## Professional Development

AWS Solutions Architect – Associate, 2022