

# GABRIEL RAMIREZ

*Data Scientist Machine  
Learning Engineer*

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📍 Blue Bell, PA

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## EDUCATION

Master's degree  
Statistics

**Carnegie Mellon University**

📅 2011 - 2013

📍 Blue Bell, PA

Bachelor of Science  
Statistics

**Carnegie Mellon University**

📅 2007 - 2011

📍 Pittsburgh, PA

## SKILLS

- NumPy
- Scikit-learn
- ggplot2
- dplyr
- MySQL
- SQLite
- Keras
- PyTorch

## CERTIFICATIONS

- Certified Machine Learning Engineer (CMLE)

## WORK EXPERIENCE

Data Scientist Machine Learning Engineer

**Siemens Digital Industries**

📅 2019 - current

📍 Blue Bell, PA

- Analyzed customer churn by developing predictive models, leading to a 12% reduction within 4 months.
- Wrangled data using dplyr, which resulted in a 33% faster preprocessing time that enabled additional insight extraction from large datasets.
- Created deep learning models with Keras for natural language processing tasks and **improved sentiment analysis accuracy by 61%**.
- Reduced forecasting errors by 18% by using time series models with Scikit-learn.

Machine Learning Specialist

**Cognizant**

📅 2016 - 2019

📍 Pittsburgh, PA

- Implemented deep learning architectures with PyTorch for computer vision tasks, achieving a 42% reduction in false positives and negatives in object detection algorithms.
- Conducted A/B testing on machine learning models to identify an optimal model configuration that led to an 11% user retention increase.
- Streamlined the model deployment process by creating automated pipelines using CI/CD tools, which **reduced deployment time by 52%**.
- Applied transfer learning techniques to adapt pre-trained models to specific domains, reducing training time for new projects by 23%.

Machine Learning Engineer

**Covestro**

📅 2013 - 2016

📍 Pittsburgh, PA

- Developed machine learning models using NumPy to achieve an average accuracy improvement of 12% over baseline models.
- Leveraged ggplot2 to create insightful data visualizations that resulted in 21% less time spent on data preprocessing tasks.
- Designed MySQL databases to efficiently handle large-scale datasets, **lowering query response time by 54%**.
- Collaborated with cross-functional teams to build a recommendation system using filtering techniques, which increased user engagement by 32%.