

# Phillip Lagoc

San Jose, CA 95111

[linkedin.com/in/philliplagoc](https://linkedin.com/in/philliplagoc)

[philliplagoc@gmail.com](mailto:philliplagoc@gmail.com)

[github.com/philliplagoc](https://github.com/philliplagoc)

(408) 547 - 7499

[philliplagoc.github.io](https://philliplagoc.github.io)

## Summary

Machine Learning Engineer with 4+ years of experience building scalable ML and NLP systems for large-scale data enrichment and product development. Proven track record in delivering production-ready pipelines using Python, scikit-learn, and OpenAI's GPT models. Career highlights include launching a stand-alone ML-powered taxonomy product and automating high-impact analytics workflows, generating \$400K+ in revenue. Adept at cross-functional collaboration, technical documentation, and supporting non-technical stakeholders. Passionate about applying LLMs and data-driven strategies to solve real-world problems.

## Work Experience

### ML and AI Analytics Engineer, Gaming | Sensor Tower

Nov. 2020 - Present

- Spearheaded the development of an LLM pipeline using OpenAI's GPT models for multi-class classification tasks, expanding taxonomy coverage by 1M+ games with an average F1 score of 80%.
- Pioneered and delivered AI-driven solutions to automate taxonomy classification and enrichment, enabling the successful launch of our taxonomy as a stand-alone product offering.
- Led weekly Game IQ team meetings to improve alignment, foster cross-functional problem-solving, and drive faster decision-making across product and AI-driven initiatives.
- Built a custom scikit-learn model to automate data tagging with 95% accuracy, reducing manual effort and accelerating delivery of a report that generated over \$400K in sales opportunities.
- Improved maintainability of legacy Ruby and Python scripts by modularizing redundant logic, reducing runtime by ~30 seconds and enhancing long-term scalability.
- Developed Python, Ruby, and MongoDB scripts to automate manual tasks for non-technical teams, significantly improving workflow efficiency and reducing turnaround times.
- Created custom Python solutions using internal APIs for non-technical clients, and authored detailed documentation to support functionality and use-case adoption.
- Conducted in-depth research on mobile gaming trends, directly informing development of data-driven features such as live events dashboards.
- Partnered with cross-functional teams to define modeling requirements and streamline client communication, contributing to timely and successful data product delivery.

### Research Data Analyst | Machine Learning for Social Science Lab (MSSL)

Jan. 2019 - Sep. 2020

- Evaluated the performance of MSSL's temporal tagger against other leading taggers to determine how to improve temporal annotation performance of online documents using tidyverse in R.
- Reduced false positive tag rate by 56% to improve data tagging quality after visualizing the performance of current data preprocessing code in ggplot2 and altering it in R.
- Optimized data gathering time by cutting operational costs in half after visualizing operational costs of different AWS EC2 instance types using matplotlib.

## Projects

### Warzone Tableau Dashboard

Jun. 2020 - Jul. 2020

- Visualized my performance from the Call of Duty: Modern Warfare Warzone gamemode with Tableau to determine avenues of improvement for my playstyle and team contribution in order to optimize match results.
- Utilized rapidapi to access previous match history and developed pandas code to preprocess the retrieved data.
- Leveraged actionable insights such as improving map positioning and awareness to increase placement in the top ten teams by 60%.

## Education

### Georgia Institute of Technology

M.S. Computer Science

Coursework: Machine Learning, Robotics, Game Development

Atlanta, GA

Aug. 2024 - Present

### University of California, San Diego

B.S. Cognitive Science, w/ Specialization in Machine Learning and Neural Computation

La Jolla, CA

Coursework: Machine Learning, Artificial Intelligence, Data Structures & Algorithms

Sept. 2016 - Jun. 2020

## Skills

**Languages:** Python, C/ C++, Java, R, HTML/ CSS/ JavaScript, Ruby, SQL, C#

**Frameworks and Libraries:** pandas, scikit-learn, matplotlib, PyTorch, Flask, tidyverse, MongoDB, Clickhouse

**Software:** Tableau, Jupyter Notebook, Git, Visual Studio, Eclipse, Mode Analytics, rapidapi, Unity

**Cloud:** Amazon Web Services (EC2, S3)