

# Mila Aguirre

## Software Engineering Intern, Data & Machine Learning

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### SUMMARY

Detail-oriented Computer Science student specializing in data science and machine learning brings hands-on experience in academic projects. Proven skills in Python, data manipulation, and machine learning libraries were developed through diverse university initiatives. Strong ability to work collaboratively within teams while applying AI-assisted methodologies in software development. Committed to leveraging analytical strengths and technical knowledge effectively within the dynamic context of an internship role, delivering practical solutions that meet real user needs through innovative programming efforts.

### EDUCATION

#### Master's Degree in Computer Science

University of California, Los Angeles 🎓 GPA: 3.8 📅 2026 📍 Los Angeles, CA

*Coursework: Machine Learning, Data Analysis, Statistical Methods, Programming Fundamentals*

#### Bachelor's Degree in Computer Science

University of California, Los Angeles 🎓 GPA: 3.7 📅 2025 📍 Los Angeles, CA

*Coursework: Data Structures, Algorithms, Software Development, Database Management*

### TECHNICAL SKILLS

- **Programming Languages:** Python, SQL
- **Data Manipulation Tools:** pandas, polars
- **Machine Learning Libraries:** scikit-learn, PyTorch
- **Data Pipeline Tools:** Airflow, Prefect, dbt
- **Cloud Platforms:** Azure, AWS, GCP
- **API Development:** FastAPI
- **Validation Techniques:** data validation, quality checks
- **Statistical Methods:** statistics
- **Version Control Systems:** Git, GitHub
- **Project Management Tools:** JIRA, Trello, Asana

### SKILLS

- Python
- FastAPI
- dbt
- documentation
- SQL
- AWS
- data validation
- data cleaning
- pandas
- Azure
- ML features
- exploratory analysis
- scikit-learn
- Airflow
- API integration
- prediction models

### EXPERIENCE

#### Data Science Project Developer

University Project 📅 January 2025 - May 2026 📍 Los Angeles, CA

Led a university capstone project focused on building robust data pipelines for analysis using Python. Positioned at the intersection of code evaluation and model implementation, engaged in creating effective ETL processes that gathered and transformed vast datasets, essential for comprehensive machine learning applications. Drove team collaboration and mentoring efforts while maintaining documentation integrity, resulting in recognized transparency and methodical accuracy across project deliverables.

- Developed a data pipeline using Python to automate the extraction, transformation, and loading (ETL) of datasets for analysis.
- Implemented data validation checks to ensure the accuracy and quality of data processed for machine learning models.
- Collaborated with peers to analyze and visualize data trends, leading to actionable insights in project presentations.
- Utilized pandas and scikit-learn to preprocess data and build predictive models, achieving a notable increase in accuracy.
- Engaged in weekly mentorship sessions to refine coding practices and enhance understanding of machine learning principles.
- Documented all processes and models, contributing to a comprehensive project report that received commendation from faculty.

#### Research Assistant

Academic Research 📅 September 2024 - December 2024 📍 Los Angeles, CA

Contributed as a research assistant in a project aimed at exploring machine learning applications within predictive analytics. Fostered collaborative engagement through data exploration and pattern recognition in real-world datasets, focusing on improving model efficiency via statistical techniques. Responsible for thorough documentation and presentation of findings, which honed interpersonal communication within academic settings and refined problem-solving acumen amidst complex research topics.

- Assisted in a research project focusing on machine learning applications in predictive analytics, applying statistical methods to real-world datasets.
- Conducted exploratory data analysis (EDA) using Python, identifying patterns and anomalies to improve model performance.
- Developed and maintained clear documentation of research findings, methodologies, and data sources for future reference.
- Participated in team meetings to discuss research progress and present findings, enhancing collaborative problem-solving skills.
- Gained exposure to cloud-based data services during data storage and retrieval tasks, improving operational efficiency.
- Contributed to a research paper that was presented at a university conference, showcasing the project's outcomes and methodologies.

## LEADERSHIP & AWARDS

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- Dean's List for Academic Excellence, 2025
- Best Paper Award at University Conference, 2024

## CERTIFICATIONS

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- Certified Data Scientist 📅 2025
- AWS Certified Cloud Practitioner 📅 2026

## PROFESSIONAL AFFILIATIONS

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- Member of the Data Science Club at UCLA (2022 - Present)
- Volunteer Tutor for STEM subjects at local high school (2023 - Present)

## LANGUAGES

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- English (Native)
- Spanish (Proficient)

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST