

# Luis E. Vivar

## Machine Learning | Software Engineer

+1 (954) 643 - 2889 | [info@luisvivar.com](mailto:info@luisvivar.com) | <https://github.com/luisvivart> | <https://www.linkedin.com/in/luisvivart>

### Skills

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- **Programming Languages:** Python, R, JavaScript
- **Data Wrangling & Analysis:** SQL, Pandas, Numpy
- **Data Visualization:** Matplotlib, Seaborn, Folium
- **Machine Learning:** PyTorch, SciKit-Learn, Feature Engineering
- **Cloud Deployment:** Google Cloud Platform, AWS, APIs
- **Source Control:** GIT, GitLab

### Projects

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#### SpaceX Mission Outcome Analysis and Prediction

IBM - Applied Data Science Capstone Project

Analyzed SpaceX launch data to determine key factors influencing mission success rates. **Preprocessed raw data** to prepare for analysis. Conducted **exploratory data analysis (EDA)** to uncover insights about launch trends, success rates by location, and payload impacts. Designed and implemented **machine learning models** to predict launch success probabilities. Developed an **interactive dashboard** for analysis visualization. Applied **clustering technique** to categorize launch sites based on performance metrics and business potential.

### Professional Experience

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#### Software Engineer, Front End

Juvaré | Atlanta, GA ( August 2022 - Present )

- Analyze and visualize **SQL** server data to improve performance and decision-making processes.
- **Develop web apps** and dashboards to help federal agencies support and handle their **databases**.
- Collaborate with data teams to structure and **query large datasets** for optimized reporting.
- Integrate rest **APIs** to optimize data exchange between internal and client systems.
- Apply **Agile** methodologies to manage tasks and deliver projects on schedule.

#### Front End Engineer

The 3RD Eye | Miami, FL ( October 2021 - December 2022 )

- **Developed web apps** to enhance marketing and visibility for clients in the healthcare industry.
- **Optimized performance**, reducing page load times by 23%.
- Conducted cross-browser testing to ensure **compatibility and accessibility**.

#### Front End Web Developer

The Dan Marino Foundation | Fort Lauderdale, FL ( August 2020 - September 2021 )

- Deployed a secure **donations portal with data validation**, improving transaction efficiency by 29%.
- Leveraged web **analytics tools to track user behavior** and optimize performance for several web pages.

Education

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**Master of Science in Data Science**

University of Colorado Boulder ( 2022 - 2024 )

**Bachelor of Arts in Data Visualization**

Instituto Técnico Universitario IGAD ( 2011 - 2015 )