

Raymundo Mora Jr.

mora.r98@gmail.com

<https://github.com/raymundo-mora> <https://www.linkedin.com/in/raymundo-mora/>

Education

University of Virginia Charlottesville, VA

Data Science M.S.

2023

Astronomy B.A.

2021

Professional Experience

CVS Health Irving, TX

June 2023 – Present

Data Engineer

- Designed and implemented processes to validate and audit internal data against official external sources to ensure accuracy, compliance, and up-to-date records for all customers.
- Leveraged generative AI and built end-to-end pipelines to ensure data compliance and conformity as part of the Data Governance team.

American Bar Association, Harlingen, TX

March 2022 – June 2023

Data Specialist

- Built and maintained a reporting pipeline with Python and Visual Basic. This delivered accurate and consistent operational insights with stakeholders and ensured compliance.
- Created and managed the Data Team's GitHub repositories, streamlining version control and deployment of internal applications.
- Developed and optimized reporting processes within the organization's database system, enabling other departments to access and analyze critical data.

Government Accountability Office, Washington, DC

December 2022 – May 2023

Student Intern, Innovation Lab

- Developed semantic search methods using Sentence-Transformers (Hugging Face, PyTorch) to enable concept based rather than keyword only search.
- Implemented summarization and topic modeling (LDA) pipelines to generate sub-topic insights and document level summaries, enhancing usability of 4,000+ government reports.

Expanding Frontiers, Brownsville, TX

August 2021 – August 2022

Software Development Intern

- Built machine learning and deep learning models using Python for environmental and space related challenges.
- Used Bash scripts and R to create products that could convert publicly available NASA mission data to an operations ready format.

University of Virginia, Charlottesville, VA

September 2018 – May 2022

Research Assistant, Department of Astronomy

- Created Python based tools for data reduction, background subtraction, PSF fitting, and deconvolution, ensuring reproducibility and accuracy in measurement.
 - Applied empirical modeling and statistical validation to compare results against prior HST based studies demonstrating the ability to evaluate models, refine assumptions and derive astronomical insights.
-

Projects

Spotify Lyrics Analysis: Topic Modeling & Sentiment Analysis

Python, Scikit-Learn, PyTorch, Pandas, NumPy, Large Language Models, GPU Acceleration

- Applied Principal Component Analysis to vectorized lyrics, revealing stylistic clustering and distinctions across top artists.
- Conducted sentiment analysis using combined lexicons and hierarchical cluster analysis with TF-IDF and cosine similarity to measure similarities between artists.