**ANDRÉS TRIANA**

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**PROFILE**

Extensive experience in key roles such as data science, data analysis, data visualization, and the creation of management reports and progress indicators. My expertise ranges from using Python to handling various tools for data extraction, cleaning, analysis, visualization, web scrapping, machine learning, artificial intelligent and backend with django. My strengths are focused on process automation, complemented by advanced skills in data interpretation, analysis, and diagnostics, which are essential for making strategic decisions.

**EXPERIENCE**

**TETRA TECH - MSI | Data & Information Management Specialist** | mar 2023 – mar 2025

* Support data management and cross-checking to ensure consistency with partner reports.
* Manage incoming datasets and assist analysts in structuring and handling these datasets.
* Utilize machine learning models for text classification to categorize and analyze textual data efficiently.
* Create visualizations, including charts and maps, to facilitate understanding of results.
* Ensure monitoring data is compiled into a database and accessible to relevant stakeholders as needed.
* Support project staff in data visualization programming.
* Provide training and technical assistance to help users access and utilize data and dashboards.

Tools: Python | Pytorch | Sklearn | Web Scraping | Fulcrum | Power Bi | QGis | Excel | Vba | SQL

**ENGINEER CORPORATION | Python** **developer** **Django** – **freelance** | apr 2024 – nov 2024

* Developed and maintained web applications using Python and the Django framework.
* Designed and managed relational databases such as PostgreSQL and SQLite.
* Optimized application security, scalability, and performance.
* Used Git and agile methodologies (Scrum/Kanban) throughout the full software development lifecycle.
* Deployed applications on Linux environments
* Participated in research and adoption of new technologies to improve development processes.

Herramientas: Python | Django | Javascript | HTML | CSS | PostgreSQL | SQLite| Git |

**IMMAP | Data Analyst Expert** | agu 2021 – mar 2023

* Compile, debug, process, and analyze information from various primary and secondary sources.
* Prepare, write, and develop reports, documents, and other relevant materials for project coordination.
* Participate in discussions related to information coordination and validation.
* Utilize new technologies for data processing and analysis, artificial intelligence, programming languages, and data mining to enhance the quality of information in the products.
* Gather and update information and databases for the different clusters implemented in the project.

Tools: Python | Sklearn | Django | Pandas | Web Scraping | Git - Github | Kobotoolbox | Data Studio | Power Bi | Excel

**IOM - INTERNATIONAL ORGANIZATION FOR MIGRATION | Professional system information** | jun 2018 - jun 2021

* Manage databases and update report indicators, ensuring the quality and consistency of the information.
* Support the consolidation of information for internal and external reports.
* Update program databases.
* Manage information related to technical components.
* Generate reports on databases to update indicators.

Tools: Python | Kobotoolbox | Excel | Word | Power Point

**ASOCIACIÓN COLOMBIANA DE DISTRIBUIDORES PELÍCULAS CINEMATOGRÁFICAS | Manage databases – Cadbox** | agu 2017 - mar 2018

* Load information into the database.
* Verify data and information.
* Create reports for exhibitors in Colombia.
* Update users and permissions.

Tools: Excel | Vba | SQL

**FUPAD/FUCOLDE | Data analyst - Evaluation and monitoring** | apr 2013 - jul 2017

* Provide management support to different teams for the evaluation of activities, goals, and deliverables.
* Provide management support for data analytics and the visualization of quantitative and qualitative information for reports.
* Assist in preparing committees and managing information.
* Support the creation of reports.

Tools: Excel | Word | Power Point | Google Forms

**EDUCATION**

* **Systems engineer | UNAD - UNIVERSIDAD NACIONAL ABIERTA Y A DISTANCIA** | agu 2017 - jul 2020
* **Technology in analysis and development of information systems | SENA - SERVICIO NACIONAL DE APRENDIZAJE** | oct 2014 - oct 2016

**SKILLS SUMMARY**

* **DATA SCIENCE, ANALYTICS AND VISUALIZATION:** Python, Pandas, Numpy, Seaborn, Matplotlib, Sklearn, Pytorch, Plotly, Sql, Data Studio / Looker Studio, Power Bi, Dash – Plotly, Beautiful Soup - Web Scraping, Selenium – Web Scraping
* **WEB DEVELOPMENT:** Html | CSS | Bootstrap | Python | Django | SQL
* **DATA COLLECTION:** Google Forms | Kobotoolbox | Fulcrum
* **PLATFORMS:** Jupyter Notebook | Visual Studio Code | Google Colaboratory
* **GIS:** QGis | Goepandas | Arcgis (Only Use Api)
* **PROJECT MANAGEMENT:** Slack | Trello | Microsoft Teams | Git – Github | Soft Skills
* **OFFICE:** Excel | Word | Power Point
* **PROBLEM SOLVING:** Critical Thinking | Communication Teamwork | Creativity
* **LANGUAGES:** Spanish – Native | English - B2

**PUBLICATIONS**

Portfolio with Tutorials and Projects: <https://andrestrianareina.pythonanywhere.com>

1. Use of LLM Models, Text-to-Speech, and Automation for the Creation of Automated Videos with models open source

This work explores the integration of large language models (LLMs), voice cloning with text-to-speech (TTS) technology, and process automation to generate fully automated videos. The project includes improvements to generated texts, natural-sounding voice replication in multiple languages, and the synchronization of visuals and audio for scalable video production.

Git repository: <https://github.com/andresmtr/create_video_news>

Video tutorial (spanish video): <https://www.youtube.com/watch?v=lquJ3ltsjuQ&t=9s>

1. Local Translation Using LLMs Without Internet Dependency

This publication focuses on the use of large language models (LLMs) for multilingual translation performed entirely offline, ensuring data privacy by avoiding any transmission of information over the internet. The approach leverages open-source models capable of handling various languages, enabling secure and efficient translation workflows in local environment

Git repository: <https://github.com/andresmtr/used_MLL_translate_huggingface>

Video tutorial (spanish video): <https://www.youtube.com/watch?v=ZuumnrVDHEI&t=1s>

1. Automated Reporting with Python and Google Colab for Dynamic Dashboards in Looker Studio

This work presents a streamlined approach to automating report generation using Python within Google Colab. It focuses on building data pipelines that process and transform data automatically, enabling the creation of real-time, interactive dashboards in Looker Studio (formerly Data Studio). The solution enhances reporting efficiency and supports data-driven decision-making through continuous data updates and visualization.

Video tutorial (spanish video): <https://www.youtube.com/watch?v=shnnGnTKki0>

1. Web Scraping for Data Extraction and Structured Consolidation for Analysis with Python

This publication highlights the use of web scraping techniques to extract valuable information from online sources and consolidate it into structured formats (such as CSV or JSON). The data is then prepared for further analysis using Python tools, enabling automated data collection pipelines and facilitating insights through exploratory data analysis, visualization, and reporting.

Git repository: <https://github.com/andresmtr/WebScraping_python_-selenium_on_Indeed>

Video tutorial (spanish video): <https://www.youtube.com/watch?v=GWUw65NGKX0&t=2s>