Justin Napolitano

https:jnapolitano.io

EXPERIENCE

• BTJN, LLC Houston, TX

Data Specialist May 2021 - Present

• **Application Development**: Developed Python web scraping application to programatically produce 10,000 unfiltered sales leads weekly.

- ETL Pipelines: Transformed, filtered, and loaded data from CSV, JSON, and Excel formats to Neo4j and JanusGraph databases. Integrated data into client's existing Google Sheets workflow with custom Google API class
- Business Reporting and Sales Predictions: Modeled retail sales with the SARINA, Holt-Winter, and Exponential Smoothing models in Python and Jupyter Notebooks. Identified model of greatest predictive power with the Mean Absolute Percentage Error formula.

• University of Central Florida

Orlando, FL

Research Lead

Jan 2017 - Aug 2019

Email: justin@jnapolitano.io

Mobile: +1-832-299-0372

- $\circ \ \ \textbf{Research Design} : \ Ensured \ rigor \ of \ data \ collection \ methodology \ by \ meeting \ industry \ best \ practices.$
- **Database Design**: Defined a third normal database to maintain logical consistency. Refined schema to facilitate porting to person, object, location and event (POLE) schema.
- Data Integration: Standardized integration procedures to verify integrity of files generated by research assistants. Transformed data from Excel and CSV sources into JSON format to index into a noSQL database.
- Data Analysis: Analyzed conflict data with Pandas. Visualized data trends with MatPlotLib. Exported visualization and data to Excel. Prepared presentation for peer review at the Peace Science Conference at the Hague, Switzerland.
- **Project Management**: Developed manuals to train inexperienced research assistants to query primary sources and code data points. Led team to achieve project goals prior to deadlines defined in our grant.
- **Human Rights Abuse Frame Work**: Aggregated corpus of international human rights law to cross reference with abuse events.

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Research Assistant

Jan 2017 - Jan 2018

- Data Integration: Aggregated data points generated by student research assistants into database with Python.
- Automated Sentiment Analysis: Compared user scored sentences to programmatic scoring to identify errors.

PROJECTS

- Business Analysis: Forecasting and analysis projects.
- Political Analysis: Conflict, behavioral, and political analysis.
- Human Right Abuses in Anatolia: Identifying human rights abuses and terrorist activity in Anatolia
- Human Right Abuse Frame Work: A collection of pertinent violations of human rights law cited by international treaty.
- Machine Learning: Machine learning for political analysis.
- Data Integration: Data Integration and transformation scripts.
- Google Drive API: Google API application to upload JSON data to remote Google Sheets.
- Sphinx Documentation Template: Tutorials and templates to create Sphinx and Jupyter Book publications

SKILLS

- Technologies: Graph Database, Jupyter, LaTeX, MatPlotLib, Pandas, Python, SAS, SPSS, SQL, TensorFlow.
- Data Modeling and Analysis: Sales Forecasting, Political Analysis, Business Analysis, Data Visualization.
- Spoken Languages: Cantonese, English, French, Spanish.

EDUCATION

• University of Central Florida Bachelor of Arts in Political Science