

JUSTIN NAPOLITANO

Open source intelligence specialist proficient with Python, SAS, and SPSS. Experienced in feature extraction, integrating data, and visualizing data for peer reviewed academic papers.



CONTACT

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EDUCATION

Bachelor Political Science Aug 2018

University of Central Florida Orlando, Florida

CERTIFICATES

Python Specialization May 2020

University of Michigan Coursera

SKILLS

Programming

Python

C

SQL

SAS

Go

Java

Javascript

Scala



Data Handling and Analysis

Pandas

Statsmodels

PySpark

NetworkX

TensorFlow/Keras



Languages

English

French

Spanish

Cantonese



SOFTWARE AND TOOLS

Bash

Html

CSS

LaTeX

Markdown

reStructuredText

Jupyter

Sphinx

Git/Gh

Docker

Vim

PyTest

Matplotlib

Neo4j

JanusGraph

EXPERIENCE

Application Developer

May 2021 — Present

BTJN, LLC

Houston, Texas

- **Data Mining:** Developed Python application to mine greater than 250,000 sales leads.
- **Data Transformation:** Transformed records to client's data format with PySpark.
- **Data Warehousing:** Stored historical data in Neo4j warehouse.
- **Sales Forecasting:** Modeled retail sales with Statsmodels API.

Author/Project Leader

Jan 2017 — Aug 2019

University of Central Florida

Orlando, Florida

- **Data Visualization:** Visualized P.O.L.E graph with Matplotlib.
- **Feature Extraction:** Standardized project's feature extraction methodology.
- **Inferential Statistics:** Identified features correlated with increased event probability.
- **Project Management:** Trained team members to query databases and collect data points.

Research Assistant

Jan 2017 — Jan 2018

University of Central Florida

Orlando, Florida

- **Data Management:** Managed team data aggregation, verification, and storage procedures.
- **Data Verification:** ANOVA tested human scoring against automated scoring.
- **Sentiment Analysis:** Automated sentiment analysis of sentences with Python NLTK.

PROJECTS

Journal.Jnapolitano.io

Nov 2021 — Present

- **Commercial Research:** Identifying structural factors influencing international trade.
- **Metadata Mining:** Extracting features from the Library of Congress API.
- **Tensorflow Behavioral Prediction:** Predicting Supreme Court outcomes with TensorFlow.
- **Python Tools:** Releasing Python tools to interface with Neo4j, JanusGraph, and Google APIs.
- **Static Web Site Generation:** Creating websites with Sphinx and the Jupyter Book.

PUBLICATIONS

Turkish Kurdish Analysis Database

📖 *Peace Economics, Peace Science and Public Policy* vol 25, no. 4, pp. 36

👤 Demet Mousseau, Justin Napolitano, Alex Olson

📅 2019

🔗 DOI

CORE COMPETENCIES

Legal Research

Sales Forecasting

Behavioral Analysis

Feature Extraction

Socioeconomic Research

Project Management

Sentiment Analysis

Data Visualization

Economic Modeling

Ethnographic Research