



Armed Conflicts

Forecasting & Visualization

Overview

69,000 people were killed in
state-based armed conflicts in
2017

88,000 in 2016

104,000 in 2014



Cost of Wars

Predicted vs Actual

- Inertia
- Stakeholders
- ...

War chests

Cost to the US of major wars

Conflict	Direct cost of war, \$bn 2002 prices	As % of GDP*
Revolutionary war (1775-83)	2.2	63
War of 1812 (1812-15)	1.1	13
Mexican war (1846-48)	1.6	3
Civil war (1861-65)	62.0	104
Spanish-American war (1898)	9.6	3
First world war (1917-18)	190.6	24
Second world war (1941-45)	2,896.3	130
Korean war (1950-53)	335.9	15
Vietnam war (1964-72)	494.3	12
Gulf war (1990-91)	76.1	1

*At time of the war

Sources: William D. Nordhaus, Yale University;
Al Nofi, Statistical Summary: America's Major Wars,
www.cwc.lsu.edu/cwc/other/stats/warcost.htm

SUSTAINABLE DEVELOPMENT GOALS



Solution Space



Diplomacy
&
Mediation



Investments



Transparency

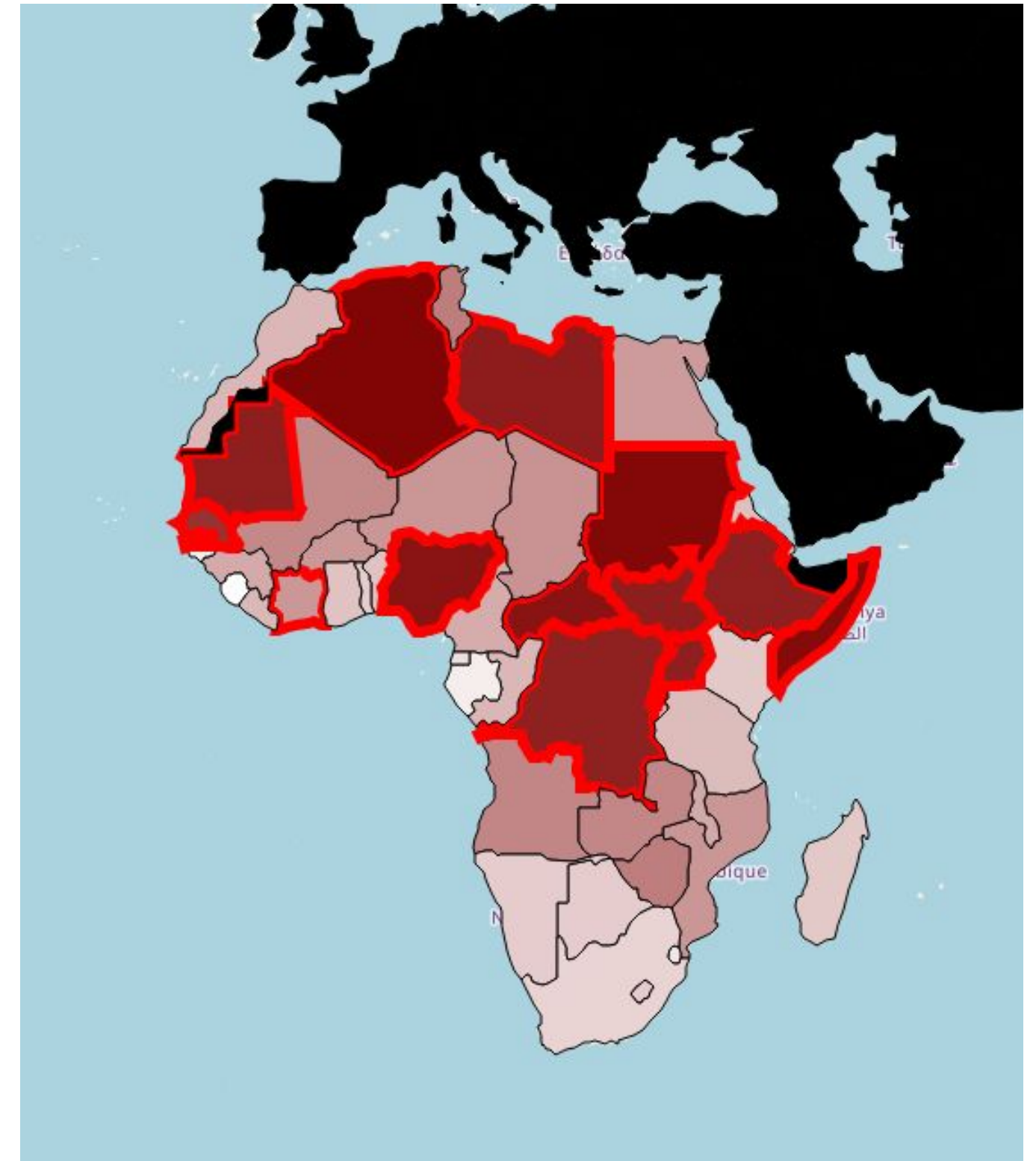
Opportunity

Data-Driven Diplomacy

Accountability

Datasets

- [Norwegian Initiative on Small Arms Transfers](#)
- [Uppsala Conflict Data Program](#)
- [Our World in Data](#)
- [The World Bank](#)



The Dataset

Label

Is there a conflict for that year/state (Binary)

Features

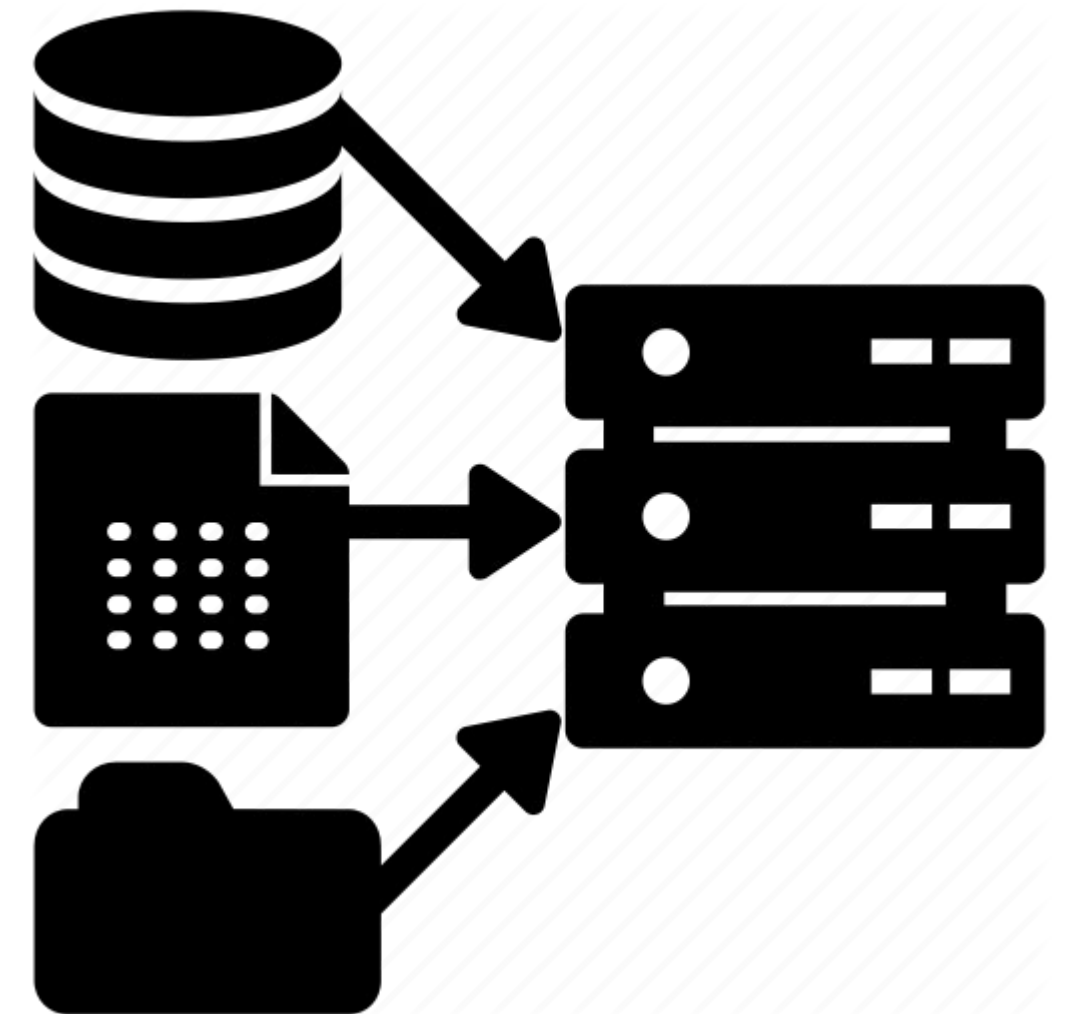
Small Arms and Light Weapons Imports

Military Expenditure as a Share of GDP

Military Personnel Relative to Population

Population

Year



The Model

Bagging

Random Forest (w1: 0.5)

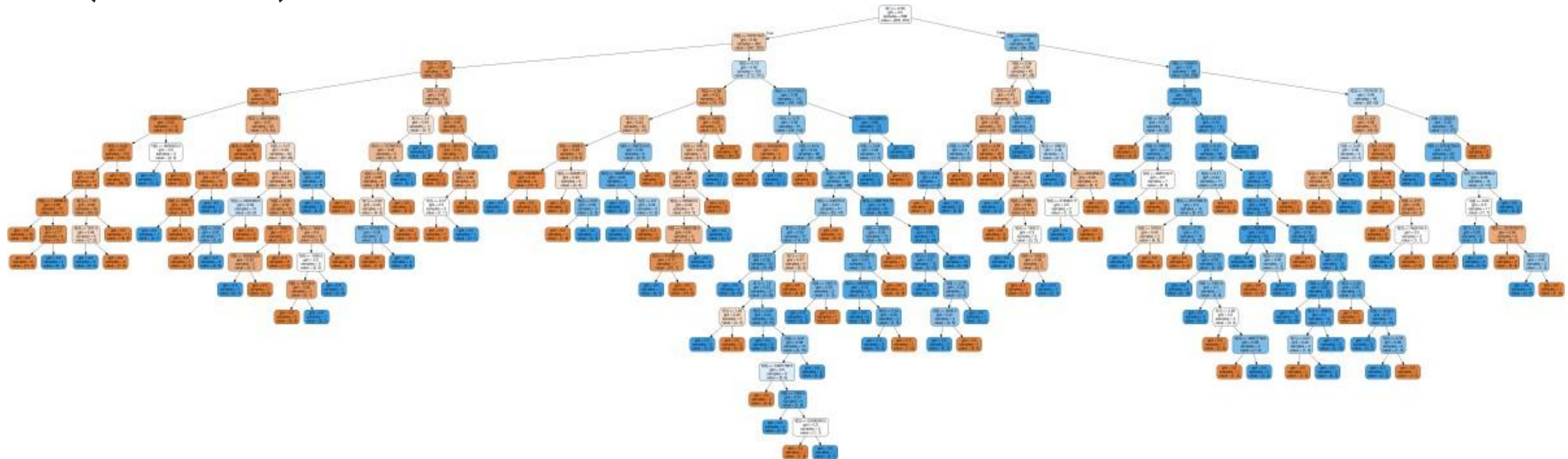
Logistic Regression (w2: 0.25)

SVM (w3: 0.25)

Accuracy

Binary : ~25%

Forecast : ~89%



Interactive Map

https://jeanromainroy.com/dataviz_armed_conflict.html