PROJECT 3

HUMAN FREEDOM INDEX

Problem Statement:

To study the characteristics of the total 123 features provided in the dataset to analyse and improve India's low performance in HFI (Human Freedom Index). Based on the parameters available in the dataset visualizations and dashboard was created using Power BI. The hf-score for India is compared with top 5 world economies compared in the world to see India's Performance in 2018.

The workbook contains following table,

Human Freedom Index Data for 2018.

- Relationship was created between ef_legal integrity and pf_rol_civil which was the most significant feature by ML model.
- India's performance is compared with top 5 world economies.
- Interactive slicer in terms of Region.

The Dashboard highlights the following: -

o hf_score by year wise.

o ef_legal integrity and pf_rol_civil by countries

o ef_legal integrity and pf_rol_civil by countries performance rate.

o Interactive slicer in terms of Region.

Since, the data was well understood and developed through ML models only visualizations has been performed in Power BI.

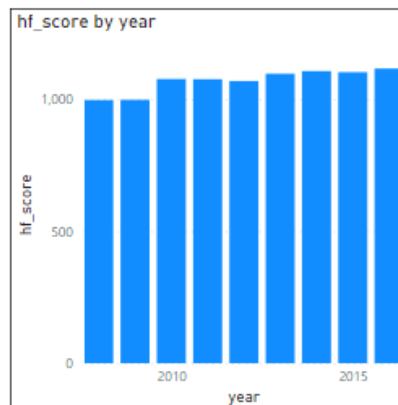### Understanding Data:

Data was about the hf_score for the year 2018.

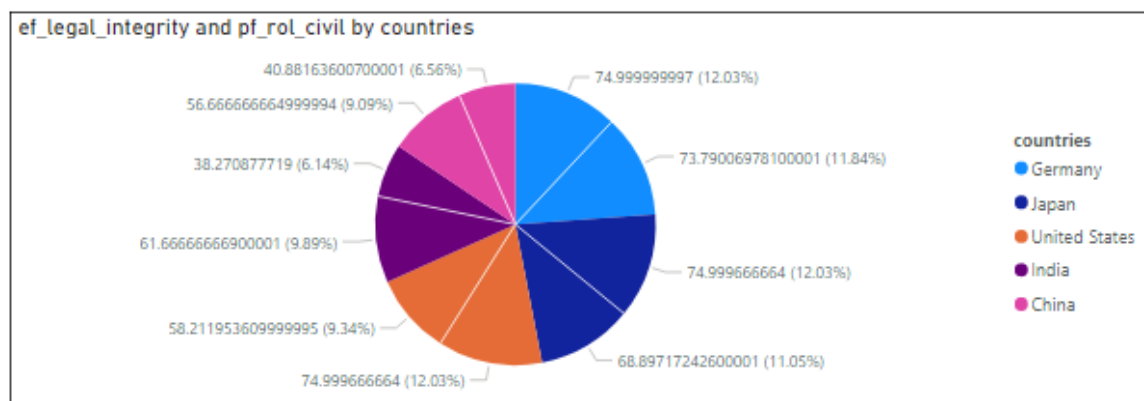| year	ISO_code	countries	region	pf_rol_procedural	pf_rol_civil	pf_rol_criminal	pf_ss_homicide	pf_ss_disappearances_disap	pf_ss_disappearances_vio
2016	ARM	Armenia	Caucasus & Central Asia				8.808749692	10	
2016	AUS	Australia	Oceania	8.439109887	7.525648148	7.364078306	9.623537569	10	
2016	AUT	Austria	Western Europe	8.969832378	7.872187541	7.673226526	9.73791214	10	
2016	BHS	Bahamas	Latin America & the Caribbean	6.930834823	6.008696107	6.262839888	0	10	
2016	BEL	Belgium	Western Europe	8.669066926	7.343871578	7.240364332	9.220406912	10	
2016	BLZ	Belize	Latin America & the Caribbean	4.753382656	4.73776594	3.315467431	0	10	
2016	BEN	Benin	Sub-Saharan Africa				7.526894608	10	
2016	BOL	Bolivia	Latin America & the Caribbean	3.70286887	3.361330728	2.090005954	7.479923513	10	
2016	BIH	Bosnia and Herzegovina	Eastern Europe	6.312217024	4.995851416	5.102172745	9.489854712	10	
2016	BRN	Brunei Darussalam	South Asia				9.802817735	10	
2016	BGR	Bulgaria	Eastern Europe	4.984199294	5.631896601	4.058020693	9.545583195	10	
2016	CAN	Canada	North America	8.622614869	7.181645789	7.410711181	9.326358182	10	
2016	CPV	Cape Verde	Sub-Saharan Africa				5.405668368	10	
2016	CAF	Central Afr. Rep.	Sub-Saharan Africa				2.097049616	5	
2016	CHL	Chile	Latin America & the Caribbean	7.706122271	6.291439181	5.55075071	8.614886879	10	
2016	COG	Congo, Rep. Of	Sub-Saharan Africa				6.271019436	0	
2016	CIV	Cote d'Ivoire	Sub-Saharan Africa	2.988533726	5.187529626	3.925204449	5.347790283	5	
2016	HRV	Croatia	Eastern Europe	6.312658075	5.732319144	5.056636383	9.582146209	10	
2016	CYP	Cyprus	Eastern Europe				9.555652932	10	
2016	CZE	Czech Rep.	Eastern Europe	8.71149208	7.237187748	7.411396829	9.754941159	10	
2016	DNK	Denmark	Western Europe	9.273487606	8.619285893	8.168528987	9.607727447	10	
2016	DOM	Dominican Rep.	Latin America & the Caribbean	5.242038862	4.544210882	3.27003017	3.927318039	10	

hfi cc 2018 (1,458 rows)

Visualization:
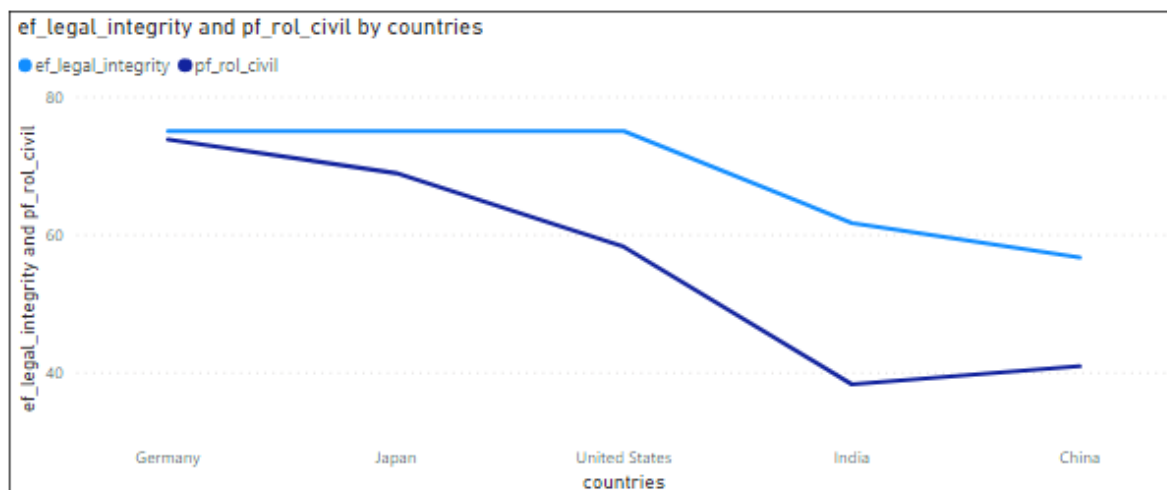
The Dashboard highlights the following: -

o hf_score by year wise using Clustered Column Chart

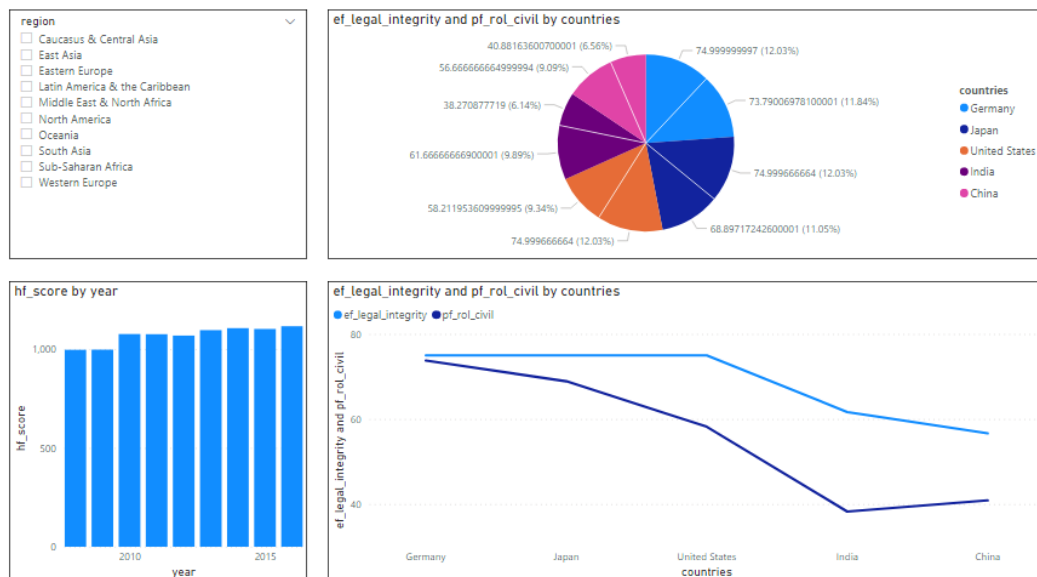o ef_legal integrity and pf_rol_civil by countries using Pie Chart

o ef_legal integrity and pf_rol_civil by countries performance rate.

o Interactive slicer in terms of Region.

Dashboard:

Conclusion:

Finally, a full report is developed created on **Power Bi Desktop** with all the requirements in the problem statement.