

42047 Data Processing with Python

Assignment 1: Part A

Abstract and Dataset details

Abstract:

We all know about the war between Russia and Ukraine. This invasion of Russia has abruptly transformed the world. Millions have already fled, a new iron curtain is grinding into place and an economic war deepens as the military conflict escalates and civilian casualties rise. The dataset that I've chosen describes equipment losses, death toll, military wounded & Prisoner of War of Russians in the 2022 War. In this assignment, I will take you through the task of the Ukraine and Russia War Losses using Python.

Problem Statement:

"Can we predict and investigate the losses a country goes through during war"

My planned approach throughout the assignment would be to firstly clean the data, after which I will analyse it using our python packages and once I review the results, I analyse and give insights into the cause.

Overall, the main reason for me to choose this topic for my assignment is to make people realise and understand what the repercussions are of war and who suffers behind it.

Dataset Details:

Tracking

- Personnel
- Prisoner of War
- Armored Personnel Carrier
- Multiple Rocket Launcher
- Aircraft
- Anti-aircraft warfare
- Drone
- Field Artillery
- Fuel Tank
- Helicopter
- Military Auto
- Naval Ship

- Tank

Acronyms

- POW - Prisoner of War,
- MRL - Multiple Rocket Launcher,
- APC - Armored Personnel Carrier,
- SRBM - Short-range ballistic missile,
- drones: UAV - Unmanned Aerial Vehicle, RPA - Remotely Piloted Vehicle.

Additional information (if any, optional):

<https://www.kaggle.com/datasets/piterfm/2022-ukraine-russian-war>