AI & National Security: a literature review (supplementary material)

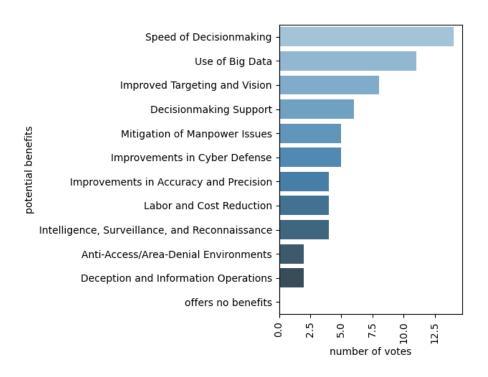
this document explains the supplementary code accompanied with our report, the following is the structure of our code base :

```
|-- data #folder contains data exported from research papers
    |-- benefits.json
    |-- risks.json
|-- Makefile #contains recipes to reproduce figures
|-- output
    |-- figures
        |-- military_benefits.png
        |-- military_risks.png
|-- README.md
|-- src
    |-- barplot.py #python scripts to generate bar-plots
    |-- utils
        |-- utils.py #helper functions
src/utils/utils.py contains
import json
def read_json(file):
    with open(file) as f:
        data = json.load(f)
   return data
script to read .json data files.
src/barplot.py contains :
    args = parse_args()
    data = read_json(args.input)
    # plot and save plot
    sns.barplot(y=list(data.keys()), x=list(data.values()),
                palette="Blues_d", orientation='horizontal')
    plt.xticks(rotation=90)
    plt.ylabel(args.xlabel)
```

this script takes as argument parsed data inputed in the format of a .json file and plot figures similar to this :

plt.xlabel(args.ylabel)
plt.tight_layout()

plt.savefig(args.output)



example of .json data used:

```
benefits of AI systems in military sector :
```

```
{
    "Speed of Decisionmaking":14,
    "Use of Big Data":11,
    "Improved Targeting and Vision":8,
    "Decisionmaking Support":6,
    "Mitigation of Manpower Issues":5,
    "Improvements in Cyber Defense":5,
    "Improvements in Accuracy and Precision":4,
    "Labor and Cost Reduction":4,
    "Intelligence, Surveillance, and Reconnaissance":4,
    "Anti-Access/Area-Denial Environments":2,
    "Deception and Information Operations":2,
    "offers no benefits":0
}
```