

## **Team: CyberPynk**

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### **Abstract**

- Used Pandas to retrieve and clean 70k+ rows of data, including using API to fetch U.S. employment data from the Bureau of Economic Analysis (BEA) and web-scraping the occupation capabilities data from O\*NET Online.
  - Developed metrics to evaluate the regional penetration and occupational replacement rates, established user interfaces for streamlined data querying
  - Employed advanced visualization techniques, including interactive maps with Pyecharts and dynamic sorting charts with Animation, give users more intuitive illustration of robot penetration with the proliferation of robot use.
- Over 900+ combinations of charts are available based on user inputs.