

Topic: FAERS Data for Portfolio Projects

Portfolio Projects
with
Pizzazz



Welcome to Today's Lecture!

Today's Lecture

- FAERS: FDA Adverse Event Reporting System
- What is it?
- How to query the dashboard
- Issues with the data
- Ideas for good portfolio projects with FAERS data

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- Online tutorials
- Video demonstration
- Online courses
- Mentoring program
- ...and more!



What is “Adverse Event” data?

- After drug companies have a drug approved and it is on the market, they are ethically bound to collect data about “adverse events” or “adverse reactions”
- In most countries, they set up a database and have a reporting system like FAERS.
- **Good News:** It is very easy to use – usually people from the community can contribute.
- **Bad News:** Most the data are hard to use because there is no formal process.

Resources

Blog post showing an example of querying the FAERS data:

<https://dethwench.com/faers-data-for-portfolio-projects/>

Information about making classification crosswalks:

<https://dethwench.com/classification-crosswalks-in-data-science/>

Datasets for portfolio projects:

<https://dethwench.com/curated-datasets-for-data-science-portfolio-projects/>

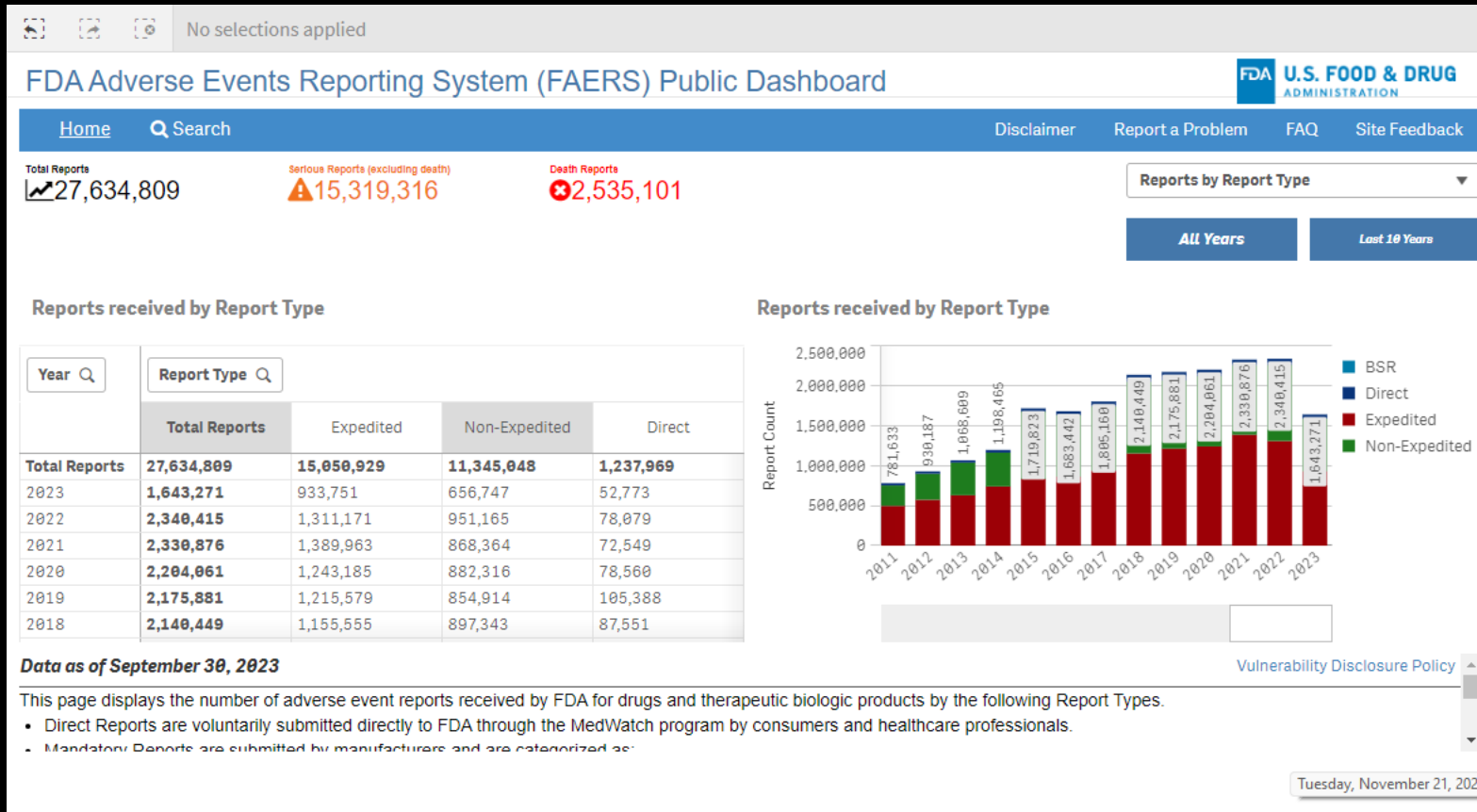
Ideas for portfolio projects:

<https://dethwench.com/portfolio-project-examples-for-data-science/>



FAERS Public Dashboard

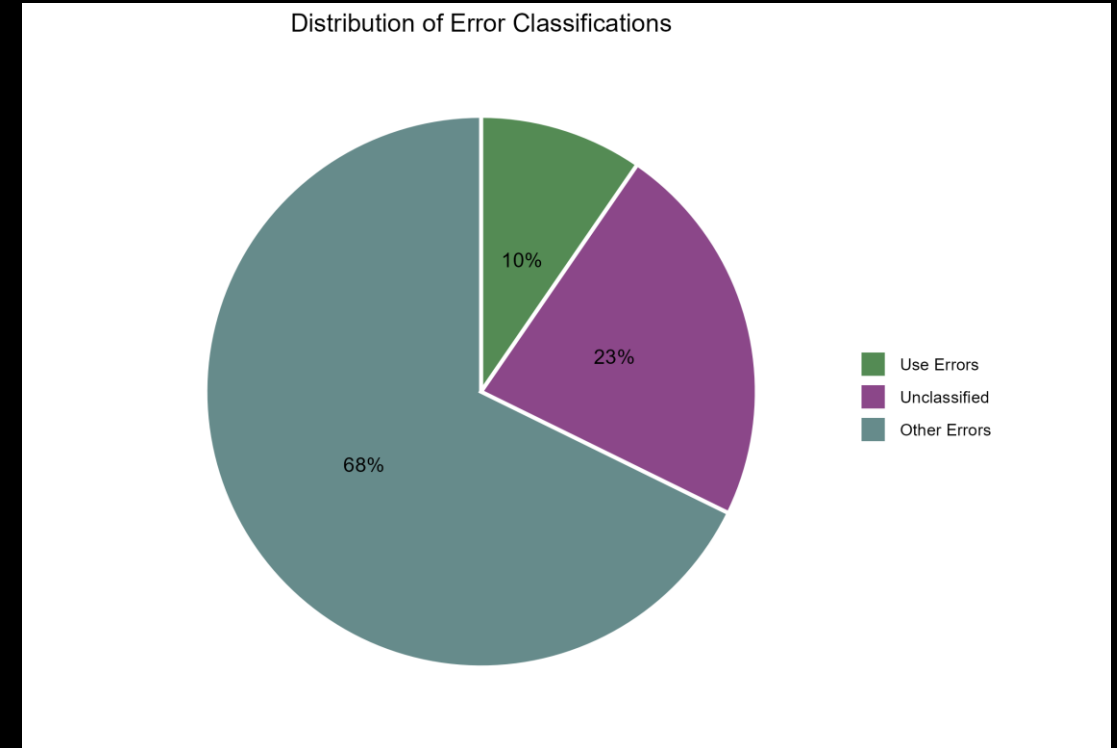
- You can navigate it, filter queries, and download count data
- It doesn't have an obvious menu or tutorial
- There are probably many things you can do that I did not figure out about it
- There are other ways of downloading FAERS data





Conclusion

- FAERS public dashboard is a great place to start with an adverse event research question
- You can either
 - Use the dashboard as a starting point for a deeper analysis, or
 - Just do a simple descriptive analysis with data from a creative query



This pie chart is from the FAERS blog post. Read the blog post to see why I made this pie chart!



Questions?

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