***ICS625 Summer 2023 - Sources***

We are going to use several sources for this project.

The first is “*Working with AI*” by Davenport and Miller. It is the only REQUIRED reading.

This book is only 266 pages long. There are 3 important sections.

The Introduction, the Case Studies, and Insights.

This is not a technical book. This book is about how AI has been successfully implemented in a variety of businesses – about the relationships and management challenges to fitting AI into their business.

The second source is the main technical source for this project. It is a GITHUB repository with links to 500+ papers from 100+ companies. It is NOT required reading.

Link to the GITHUB repository:

[Data science & Machine Learning in Production](https://github.com/eugeneyan/applied-ml)

“***Papers & tech blogs by companies sharing their work on data science & machine learning in production.***”

The papers are divided into 30 different categories that represent the state of AI at this time.

Over 200 (37%) of the papers were submitted by just 7 corporations: LinkedIn, Google, DoorDash, Alibaba, Uber, Facebook and Netflix.

There is a file that organizes and gives a brief description of each category: github\_applied\_ML.docx

The third source is another very technical reference is *“Artificial Intelligence – A Modern Approach”* by Stuart J. Russell and Peter Norvig.

This book is optional - It is up to you if you want to get a copy of this book. The 4th edition is current, but the 3rd edition has most of the material and is more affordable. At just over 1,000 pages this book is intended for Computer Science majors with substantial prerequisites and a couple of years to invest. Still, it’s handy to have when you want to study specific technical details about AI.

The supplemental videos and power points authored and produced by Professor Frank Groom are a more accessible technical reference.

Required reading:

Paper: “MLOps-A Holistic Approach White Paper WANDB.pdf”