Welcome to Data-X

Introduction: Ikhlaf Sidhu

What is Data-X:
- Advanced project course for data science applications
- Concepts: theory, tools, project.

Intention:
- Practical, Very Applied,
- Hacker’s Guide to Data Science
- Systems not just algorithms

What do Students Learn:
- Computer science tools for data science
- Relevant theory
- Most important: how to build real world data and AI applications
Data-X Course Philosophy

Make the Tools
Use State-of-the-Art Open Source Tools
Architect the System
Sell, market, and pitch the product

Most CS / Math

Data-X

Business Topics
Data-X Project Examples

Prediction, Classification, Automation:

- Detection of fake news
- Prediction of long-term energy prices
- Automatic recycling through image recognition
- AI for crime detection, traffic guidance, medical diagnostics, etc.
- A version of Zillow that is recalculated with the effects of AirBnB income
- Signal processing and pattern analysis to improve earthquake warning systems
- Early Autism Detection
- Secure Health Records stored on a Blockchain

find many, many more at: data-x.blog
Open-ended, real-world project:
Typically 5 students, with available advisor network
What is next?

Get your Notebook/development environment working

See the project module to get stared with initial project ideas

Discuss the next steps in class session:
• Key dates
• Final project presentation dates
End of Section