Anaconda/Jupyter Notebook

https://www.anaconda.com/products/individual
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Welcome to Data Analytics for Cybersecurity!

Dr. Martin “Doc” Carlisle
What this course is

• Combo of machine learning and cybersecurity
• Will look at a large number of research papers in the field
  – You’ll learn basic data science techniques (statistical and neural networks)
  – You’ll learn how they are used for cybersecurity problems
  – You’ll write your own paper as a final project
Graded Events

- Homework 30% (4 of them)
- Participation 5%
- Final Project 30% (group)
- 1\textsuperscript{st} Exam 15%
- 2\textsuperscript{nd} Exam 20%
- (No final exam- final project presentations last week of classes and during final exam period)
Some thoughts

• Read the paper before coming to class!
  – Would like to discuss ideas instead of just talking at you

• I love questions! (Don’t be afraid of looking dumb)

• I want to know your name
  – But please help me!
    • “There’s often an issue with calling on the same people over and over (generally the teacher’s pets, or most active students)”

• Let’s do lunch!
  – Or come to my office hours, or set up an appointment, or chat on Discord, or ….

• Don’t wait for the end of course evaluations if something’s not working for you
About me

3rd semester at Texas A&M
previously US Air Force Academy, Auburn, Carnegie Mellon
Computer Security person
Founded AF Academy Cyber Competition Team
Education Director, picoCTF
Faculty Advisor, TAMUctf
Faculty Advisor, TAMU Cybersecurity Club
Find the things

- Canvas (https://canvas.tamu.edu) – syllabus, assignments, grades, discussion (replacement for e-campus)
- Gradescope (https://Gradescope.com) – submit assignments – linked from Canvas
- Discord
  - https://discord.gg/ahCRRyz7uD (today!)
  - Tag me if you want a reply from me
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Meet the Air Force's future cyber force

By Sean Lyngaas | Mar 12, 2015

COLORADO SPRINGS, COLO. – The young Air Force Academy cadets are glued to their computer screens, staring at jumbled lines of code. One is trying to hack a website in a competition sponsored by the Pentagon’s research arm. Another is working on reverse-engineering problems generated by a Korean website.

A soft-spoken professor looks on, while his understudy, a man in his early 30s with a Ph.D. from Oxford University, helps cadets in another corner of the room.

Engineering student team takes second in virtual embedded security system competition

May 3, 2021 | By Stephanie Jones