Lumberjack Balancing

Faculty Workload Simplified

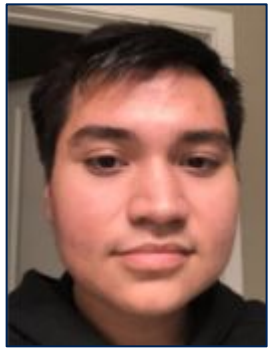
NAU NORTHERN ARIZONA UNIVERSITY
College of Engineering, Informatics, and Applied Sciences

Project 16
Faculty Workload
Assessment System

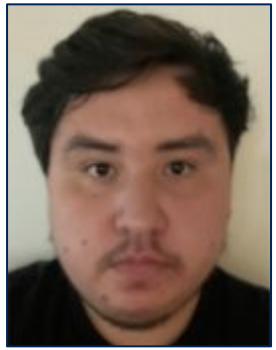
Introduction

Meet the Team

Riley Burke



Sergio Rabadan



Cristian Marrufo

Braden Wendt

Paul Deasy

Mentor

Do you ever think your professors have **too** much time on their hands?

Or maybe they can't get back to you in a **timely manner**?

They may have an **unbalanced workload**

Our Client

- Ensures that NAU offers the courses needed for every active degree plan
- Add and phase out courses as needed
- Ensure faculty have training to deliver high quality, robust courses that prepare students for their aspirations after their degree.

Dr. Scot Raab

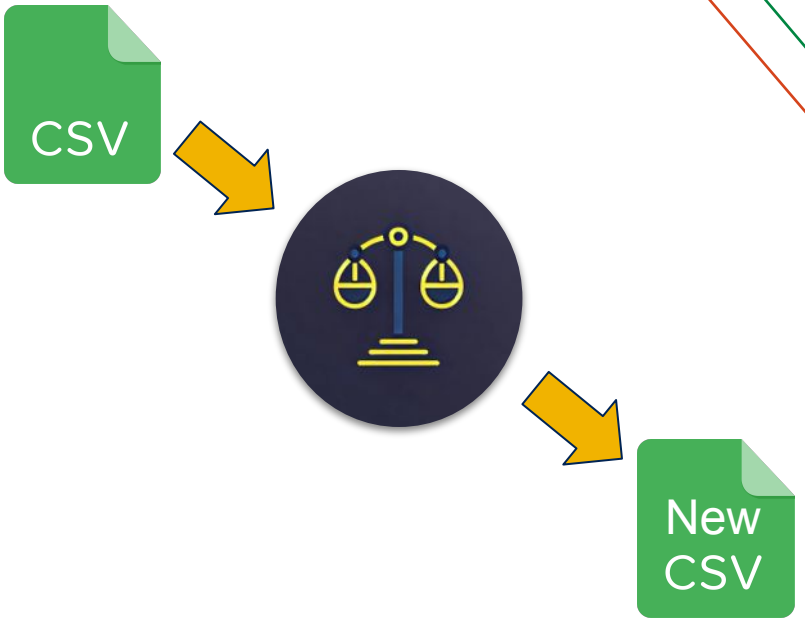
Associate Dean for Academic Affairs

What's the Job & Issue?

- Currently, Dr. Raab has to manually run line-by-line calculations over **hundreds of classes**.
- This process takes a considerable amount of **time & resources**, and can be automated to a high degree.

Our Solution

- Create a **computer application** that can take in **CSV** files, parse through specific data, and output it to an algorithm.
- Create an **algorithm** that will take in the **CSV** data and produce a color coded sheet of expected teaching workload for faculty



Plans for Development

- Use **Python** and the **PANDAS** library for parsing and analysis
- More to come

Lumberjack Balancing

- Create an application to turn a complex CSV into a simple, color coded workload analysis
- Use Python and PANDAS
- Deal with a variety of edge cases
- Save **a lot** of hours

THANK YOU