RRCC DATA LAB

IDEA Institute—Red Rocks Community College

Primarily, the Data Lab is a platform for students to learn data science. This includes learning how to analyze and effectively present data as well as immersing the student in computer science technology such as:

- ubiquitous coding languages
- industry standard collaboration and workflow software
- data collection sensors
- micro-controllers
- data processing servers

A secondary objective of the RRCC Data Lab is to engage industry and community partners in order to provide real-world data analytics challenges to the lab. Simultaneously, these partnerships will be leveraged toward granting access and opportunities to student-members of the lab.

RRCC Data Lab projects include:

- Creating a library of human cell images to be used in training neural networks (machine learning) to identify cancer

- Building and installing flow sensors to monitor surface water (and associated pollutant) drainage into the Cache la Poudre river.

See our public projects at:

> https://github.com/RRCCDataLab

> **RRCC Data Lab is a student and faculty collaborative research group aimed at tackling real world data problems within a multidisciplinary community.**

- Partnering with *Clair Global* to analyze data packets from WiFi networks provided to large venues, such as concerts and conferences, in search of network optimizations.

- Using digital elevation terrain data to create an improved, mathematically validated, grading system for runs at ski resorts

For more info contact:

> Math Faculty
> Adam.Forland@rrcc.edu