horizontal line

**Group 2**

Hunter Lavender

Abdalrahman Afifi

Travis Mueller

Zachary Wildasin

PICARD

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# Objective

To create an intuitive user interface aimed at providing users with control over computational needs for algorithm research and development.

# OVERVIEW

Our capstone project focuses on the technical visualization of The Platform for Intelligent Computer Algorithm Research & Development (PICARD), building upon the foundation established by Group 11 from the previous semester. The PICARD is dedicated to conducting the research, development, and performance analysis of semi-supervised machine learning algorithms. Primarily, focusing on the classification within large datasets marked by severe imbalance.

# GOALS

1. Create an intuitive user interface to interact with the PICARD
2. Replicate a form to build custom commands and parameters for each experiment
3. Allow users to save results locally from each experiment
4. Have users authenticate through email and password

# Hardware & Technologies

* Ubuntu Server
  + 2 Intel Xeon gold 5218 processors
* Utilizations of Firebase cloud
* Graphical User Interface is created with ReactJS,bootstrap, and universe.io
* Docker and Docker Swarm