# Kariel Sanchez Ruiz

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## EDUCATION AND HONORS

**University of Central Florida** - Orlando FL
**Computer Science – Bachelor of Science** - 2023

- Relevant Coursework: Algorithms for Machine Learning, Computer Science I && II, Intro to Discrete Mathematics, Statistics

**Booker High School –** Sarasota FL

- **High School Diploma** - 2017-2019

**Victor Valley High School –** Victorville CA

- **Pursuing High School Diploma** - 2015-2017

## Work History

**Cashier –** May, 2018 to August, 2018
**CVS –** Sarasota FL

## SKILLS

- **Programming Languages:** Python, Java, C,
- **Big Data & Machine Learning:** Python (eg. scikit-learn, numpy, pandas, matplotlib)
- **Work Skills:** Customer Assistance, Team Player, Adaptability, Spanish Fluent, Committed

## PROJECTS

**Algorithm Machine Learning Projects**

Predicted weekly Covid-19 deaths using linear models given a date, age bracket, and race (Project)

- Project was done in Python
- Conducted Exploratory Data Analysis
- Calculated RMSE to select the best model
- Models used Ridge, Lasso, OLS and Elastic

Classified the rating of 1895 games into ESRB rating (Project)

- Project was done in Python
- Conducted Exploratory Data Analysis
- Had to manually split data instead of using train test split
- Created multiple models with GridSearchCV
- Models used SVM, Random Forest, Decision Tree, Kneighbor, and Regression Log Model
- Calculated best score of grid search to use the best model for predictions

Used Multilayer Perceptron models to predict the atomization energy of molecular features(Project)

- Project was done in Python
- Conducted Exploratory Data Analysis
- Split the validation and normal data
- Conducted a search to find best optimizer
- Played around with hyperparameters to achieve best result

Built a model that classified images of clothes(Project)

- Project was done in Python
- Conducted Exploratory Data Analysis
- View some images to make sure my model was identifying correctly
- Reshaped the data
- Built different sequential models
- Played around with hyperparameters to achieve best result