

## Data Science Project Showcase:

1. Application for Returning the Current Weather (Application\_ReturningWeather)
  - a. This application returns current weather data for any location specified by the user.
2. Application for Sorting Biological Data (Application\_SortingBiologicalData)
  - a. This application sorts data in chromatography files specified by the user and outputs the data as graphs of protein concentration over time.
3. Airline Executive Summary Detailing a Campaign (ExecutiveSummary\_PRCampaign)
  - a. This summary presents a proposal to executives of an airline to adopt a PR campaign that would alleviate negative press caused by a crash.
4. Image Classifier to Identify Written Numbers (Model\_ClassifyingDigits)
  - a. This classifier identifies the names of written numbers as a type of machine-learning-driven OCR (optical character recognition).
5. Logistic Model for Predicting Late E-Commerce Deliveries (Model\_PredictingDeliveryStatus)
  - a. This model identifies which deliveries from an online retailer will be late so the retailer can remedy the problem accordingly.
6. Regression Model for Predicting Vehicle CO2 Emissions (Model\_PredictingEmissions)
  - a. This model predicts the amount of CO2 emissions from new motor vehicles to ensure government compliance.
7. Application for Parsing Emails in HTML (Application\_ParsingEmails)
  - a. This application converts emails in HTML format to readable text then sorts each by email part (from, to, title, etc).
8. Neural Network for Predicting Graduate Admissions (Model\_PredictingGraduateAdmissions)
  - a. This model predicts the probability of an international student gaining admission to an American graduate school (can be adapted for domestic students as well).
9. Binary Classifier for Predicting Heart Disease Risk (Model\_PredictingHeartDiseaseRisk)
  - a. This model predicts which patients will develop heart disease within a certain time frame to save lives and reduce diagnosis costs.
10. Regression Model for Predicting New Movie Ratings (Model\_PredictingMovieRatings)
  - a. This model predicts the IMDb rating for new films allowing directors to focus on films predicted to perform well.