Predictive Analytics – Liver Disease

# **Barbara Payne Summer 2021 https://github.com/bpayne915/DSC680-T302**

# Which Domain?

1. <https://www.sas.com/en_us/insights/analytics/predictive-analytics.html>
   1. What predictive analysis is and why it matters
2. <https://www.cio.com/article/3273114/what-is-predictive-analytics-transforming-data-into-future-insights.html>
   1. Transforming data into future insights
3. <https://www.folio3.ai/blog/predictive-analytics-examples/>
   1. Examples and uses of predictive analysis
4. <https://www.mathworks.com/discovery/predictive-analytics.html>
   1. Information on predictive analytics
5. <https://www.utreee.com/what-is-predictive-analytics-its-benefits-and-challenges/>
   1. Benefits and challenges of predictive analytics
6. <https://www.medicinenet.com/liver_disease/article.htm>
   1. Liver disease symptoms, treatments, stages, and signs
7. <https://liverfoundation.org/for-patients/about-the-liver/the-progression-of-liver-disease/>
   1. Stages of liver disease
8. <https://www.webmd.com/hepatitis/liver-and-hepatic-diseases>
   1. Types of liver diseases
9. <https://www.mayoclinic.org/diseases-conditions/liver-problems/symptoms-causes/syc-20374502>
   1. Symptoms and causes
10. <https://www.bmhsc.org/services/digestive-gastrointestinal-health/conditions-we-treat/liver-disease>
    1. Symptoms and treatments

# Which Data?

<https://www.kaggle.com/uciml/indian-liver-patient-records>

This dataset contains records of patients who have liver disease and those that do not. The purpose to predict the patients that would have liver disease.

# Research Questions? Benefits? Why analyze these data?

# Predictive analytics is extremely valuable. For businesses it can help predict trends based on previous data. Businesses can adjust accordingly based on the historical data. Predictive analytics is also extremely beneficial in the health industry. Symptoms and signs can be identified based on other patients to be able to predict if the current patient is more susceptible to the disease.

# What Method?

For this project I will be doing some predictive analytics to be able to tell if the patient has liver disease or not.

# Potential Issues?

Time. Work and school and family life often compete with one another. There is also the feeling of being so close to being done, and that feeling of being lazy. Will just need to power through and remember that it is only a few more weeks!

# Concluding Remarks

Predictive analysis is a great tool as it can really help businesses evaluate where they are. It can help them make key decisions as it really helps them look into the future. It can also help in the health industry and with people’s lives. Based on criteria, it can be told if a person is more suspectable to a certain disease or not.