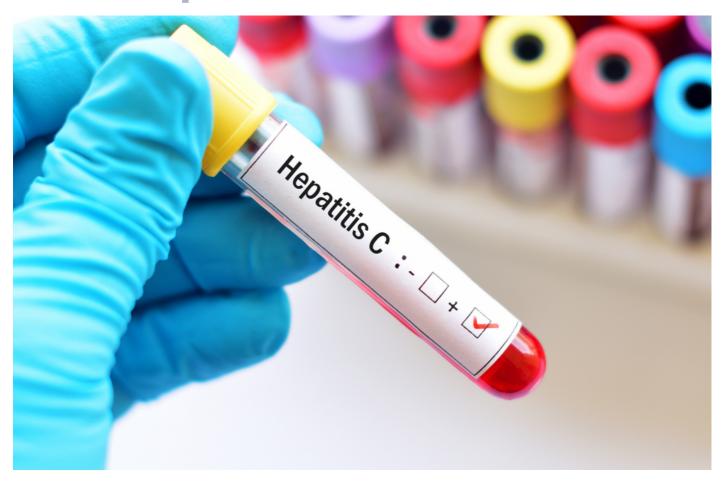
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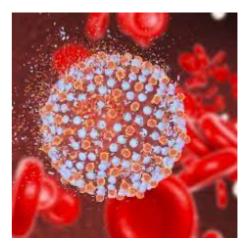
Case Study: Hepatitis C Classification

# **Hepatitis C Classification**

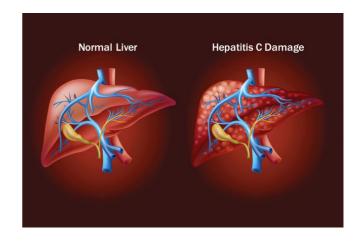


Hepatitis C is a disease caused by the Hepatitis C virus which cause an inflammation of the liver. The virus can cause serious illnesses including liver cirrhosis and cancer. Hepatitis C is a bloodborne virus and transmitted from person to person through unsafe injection, unsafe blood transfusions, injection of drugs and unsafe sexual practices. According to World Health Organization estimated 58 million people worldwide have hepatitis C virus infection and 1.5 new infections occur every year.

WHO estimated that 290000 people died in 2017 due to cirrhosis and liver cancer caused by hepatitis C virus. The effective vaccine for hepatitis C virus has not been available yet. However, proper use of antiviral the medicine can cure almost all patients with hepatitis C. Machine learning approaches can be used to diagnose the hepatitis C virus. The data derived from laboratory reports of blood donor and Hepatitis C patients are used as inputs to the machine learning algorithms which can classify each sample as blood donor, suspect blood donor, hepatitis, fibrosis or cirrhosis.



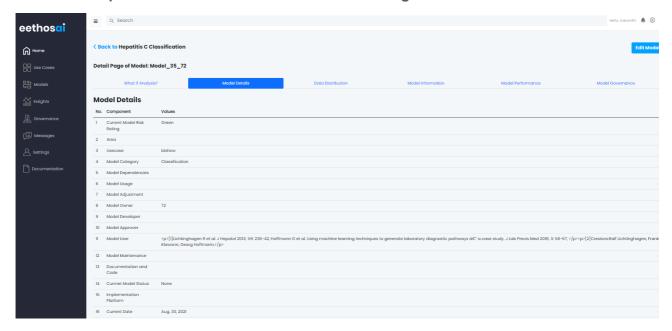
Source: https://medlineplus.gov



Source: https://www.gandhimedicos.in

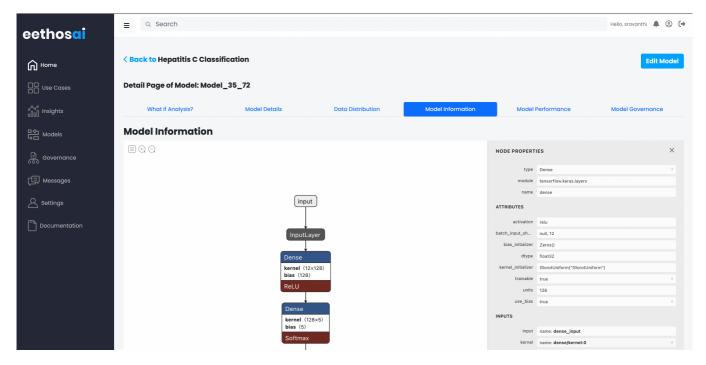
### **Model Details**

Model developer information and all details needed for governance



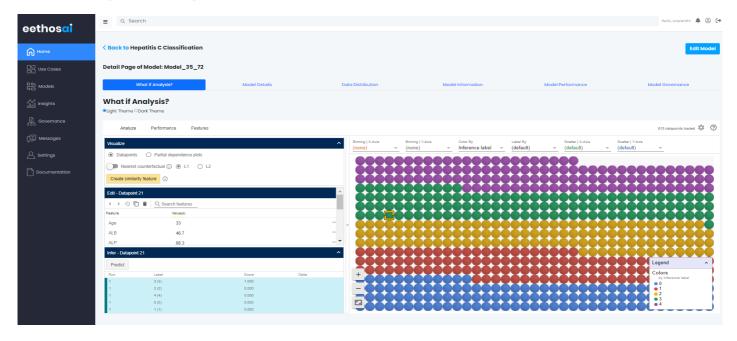
#### **Model Visualization**

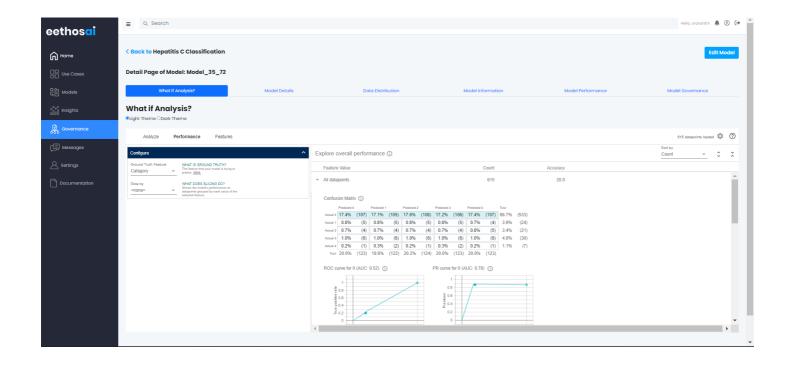
**Details of the Models** 



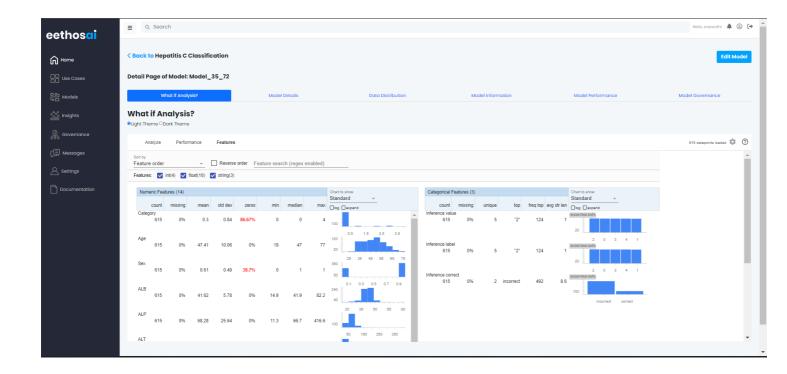


## **Analyzing Predictions**









### References

[1]Lichtinghagen R et al. J Hepatol 2013; 59: 236-42, Hoffmann G et al. Using machine learning techniques to generate laboratory diagnostic pathways – a case study. J Lab Precis Med 2018; 3: 58-67,

- [2] https://www.gandhimedicos.in
- [3] https://medlineplus.gov

