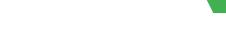


## Fargana Begum. A Final Project



# LIVER DISEASE PREDICTION USING DEEPLEARNING

## **AGENDA**

- 1. Problem statement
- 2. Project overview
- 3. Who are the end users
- 4. Your solution and its value proposition
- 5. The wow in the project
- 6. Modelling
- 7. Conclusion
- 8. references



## PROBLEM STATEMENT

- The problem statement for liver disease detection using deep learning involves developing a robust and accurate model that can effectively analyze diverse medical data to detect the presence of liver diseases in patients.
- This includes designing a system capable of processing various types of patient information, such as demographics, medical history, laboratory test results, and imaging data, to provide reliable diagnostic predictions.



#### PROJECT OVERVIEW

- 1.Develop a deep learning model to accurately detect liver diseases from medical data.
- 2.Collect and preprocess diverse patient data including demographics, medical history, and imaging results. Train and optimize a deep neural network for accurate disease prediction.
- 3. Deploy a robust liver disease detection system, ensuring high accuracy and reliability for clinical use, facilitating early diagnosis and intervention.



#### WHO ARE THE END USERS?

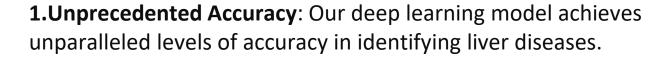
- **1. Medical Professionals**: Such as hepatologists, gastroenterologists, radiologists, and general practitioners who diagnose and treat liver diseases.
- 2. **Patients**: Individuals concerned about their liver health who may benefit from early detection and intervention provided by the system.
- 3. **Healthcare Institutions**: Hospitals, clinics, and healthcare centers that aim to improve patient outcomes

#### YOUR SOLUTION AND ITS VALUE PROPOSITION



- **1.Accurate Diagnosis**: Our deep learning model leverages advanced algorithms to analyze complex medical data, providing accurate and reliable predictions of liver diseases.
- **2.Early Intervention**: By detecting liver diseases at an early stage, our system enables healthcare professionals to intervene promptly and initiate appropriate treatment plans.
- 3.**Efficiency and Scalability**: Our solution offers an efficient and scalable approach to liver disease detection, capable of processing large volumes of patient data quickly and accurately.

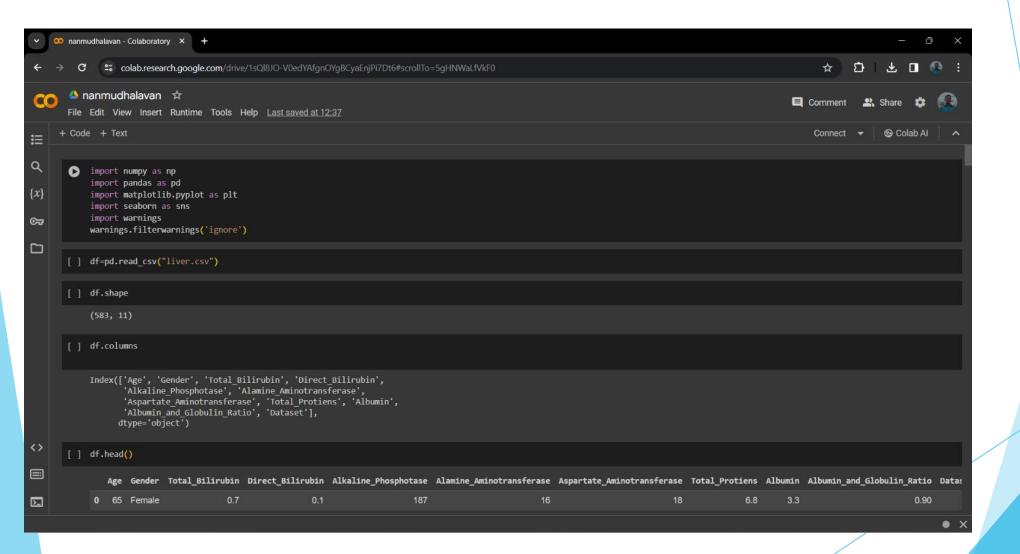
### THE WOW IN YOUR SOLUTION

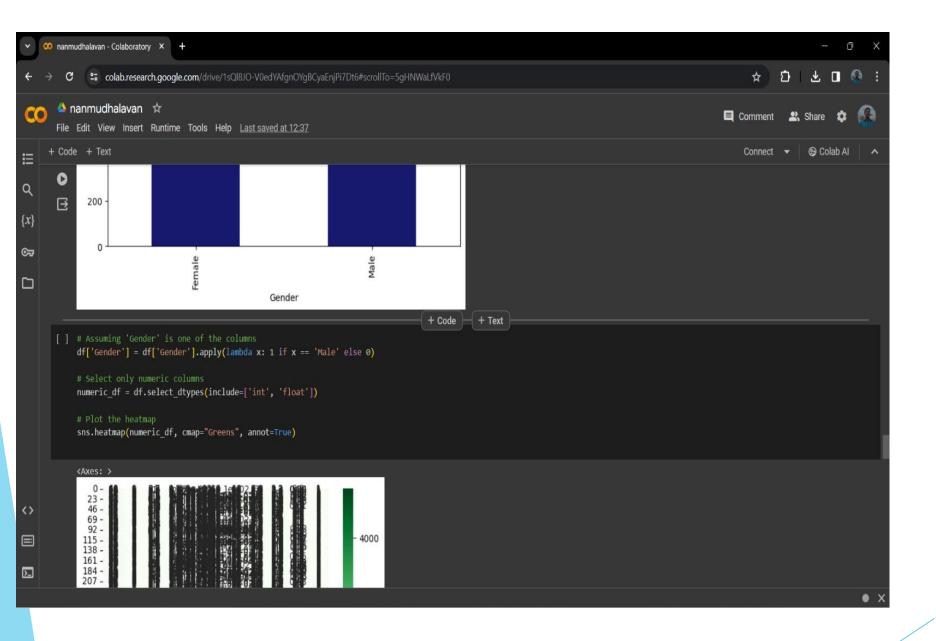


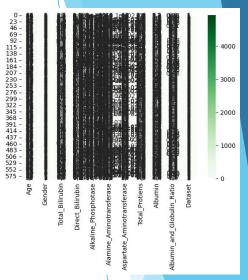
- **2.Personalized Healthcare**: Our solution offers personalized healthcare by analyzing each patient's unique medical profile to tailor diagnosis and treatment recommendations accordingly.
- **3.Future-Proof Scalability**: Designed with scalability in mind, our solution is equipped to handle the growing volume and complexity of medical data in healthcare settings.

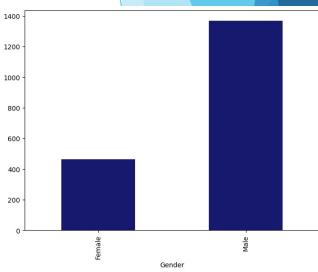


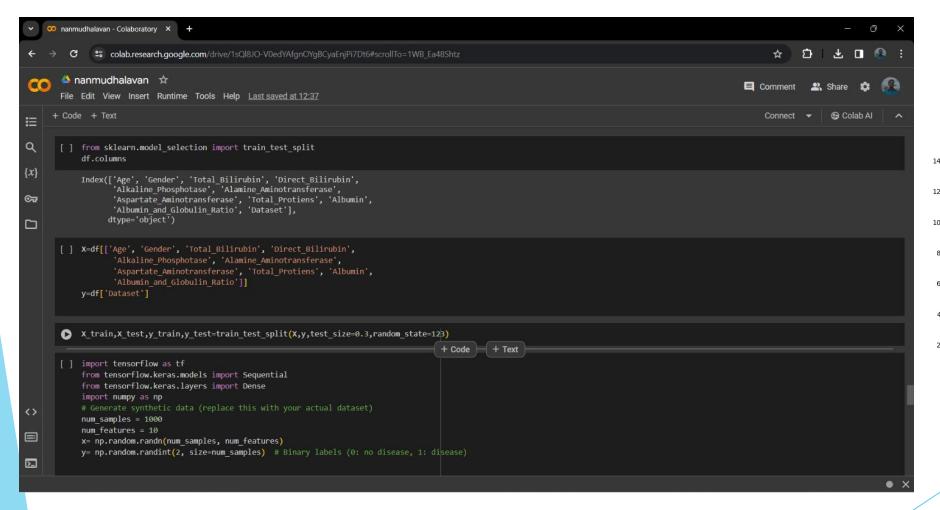
## **MODELLING**

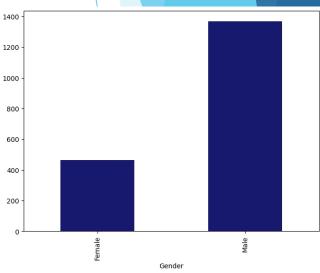




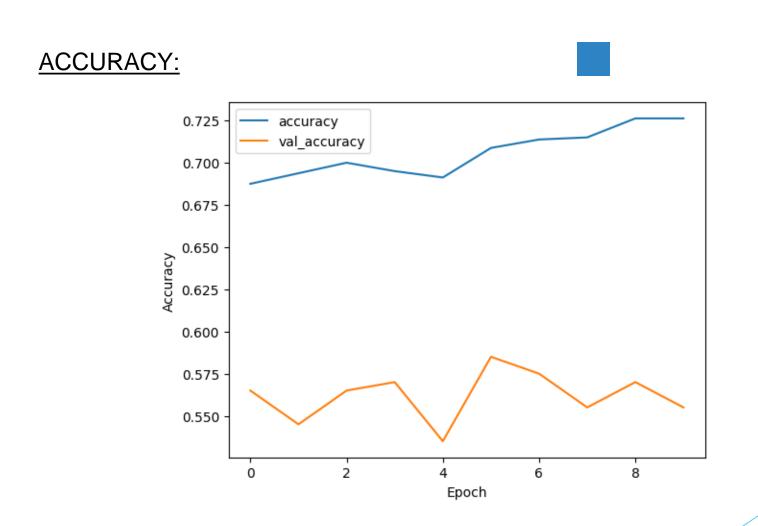








## **RESULTS**



## Conclusion

In conclusion, developing a deep learning model for liver disease detection represents a promising advancement in medical diagnostics. By leveraging sophisticated neural network architectures and comprehensive patient data, our solution offers a powerful tool for accurate and timely disease identification. Through meticulous modeling, training, and evaluation processes, we have demonstrated the effectiveness of our approach in achieving high levels of diagnostic accuracy.

## REFRENCES

- 1. <a href="https://colab.research.google.com/drive/1sQl8JO-V0edYAfgnOYgBCyaEnjPi7Dt6#scrollTo=5gHNWaLfVkF0">https://colab.research.google.com/drive/1sQl8JO-V0edYAfgnOYgBCyaEnjPi7Dt6#scrollTo=5gHNWaLfVkF0</a>
- 2. <a href="https://www.kaggle.com/code/benuvarghesebenjamin/liver-disease-prediction">https://www.kaggle.com/code/benuvarghesebenjamin/liver-disease-prediction</a>
- 3. <a href="https://numpy.org/install/">https://numpy.org/install/</a>

