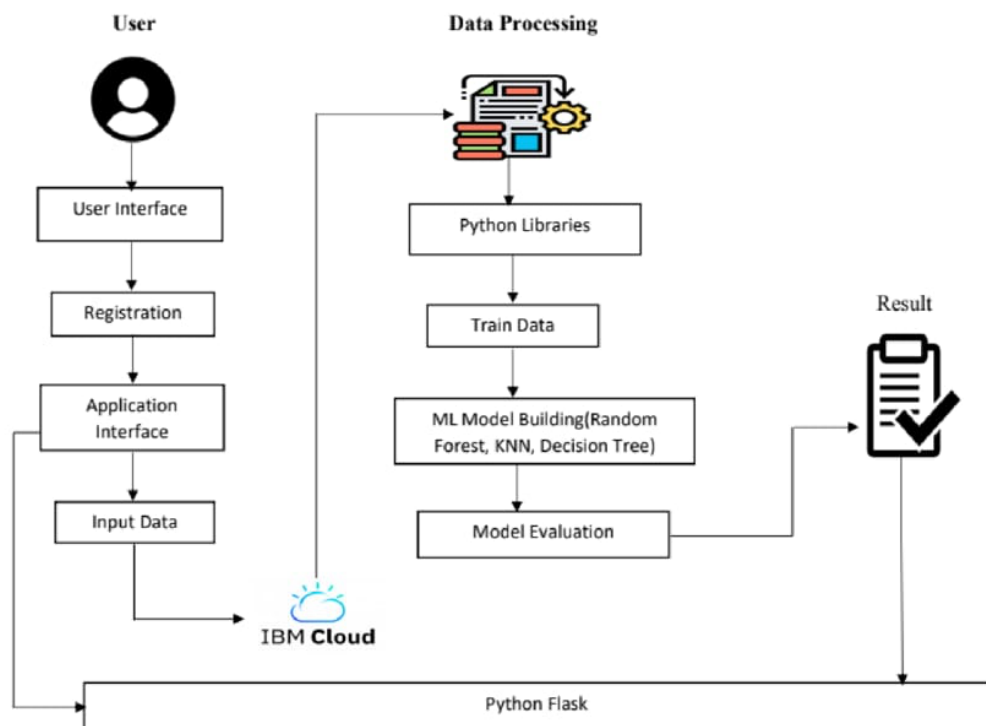


## Project Design Phase-II

### Technology Stack (Architecture & Stack)

<b>Date</b>	19 October 2022
<b>Team ID</b>	PNT2022TMID24994
<b>Project Name</b>	Project - Statistical Machine Learning Approaches to Liver Disease Prediction
<b>Maximum Mark</b>	4 Marks

### Technical Architecture:



**TABLE - 1: Components & Technologies:**

<b>S No</b>	<b>Component</b>	<b>Description</b>	<b>Technology</b>
<b>1</b>	User Interface	How user interact with the application	HTML, CSS, Python flask, JavaScript
<b>2</b>	Application Logic - 1	When the user trigger on the login button, he/she is redirected to the home page, if they are already registered.	HTML,CSS, Python flask
<b>3</b>	Application Logic - 2	Get the input from the user and predicted based on the provided result	Machine Learning with Python
<b>4</b>	Application Logic- 3	Displays the predicted Result	HTML, CSS, Python flask
<b>5</b>	File Storage	File Storage Requirements	IBM Cloud
<b>6</b>	Machine Learning Model	Get the data from the user and predict the data with tested and trained dataset models	Random forest, Decision Tree, Support Vector Machine.
<b>7</b>	Infrastructure (Server/Cloud)	Application Deployment on Cloud	IBM Cloud

**TABLE - 2: Application Characteristics:**

<b>S No</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
<b>1.</b>	Open-Source Frameworks	Development and Deployment	Python, IBM Cloud
<b>2.</b>	Security Implementations	Security provided by IBM Cloud	Workload Protection, Identity and Access Protection
<b>3.</b>	Scalable Architecture	Model can be Scalable	Python
<b>4</b>	Availability	Available in the cloud	IBM Cloud
<b>5</b>	Performance	High accuracy Performance	Machine Learning Prediction and Classification Techniques