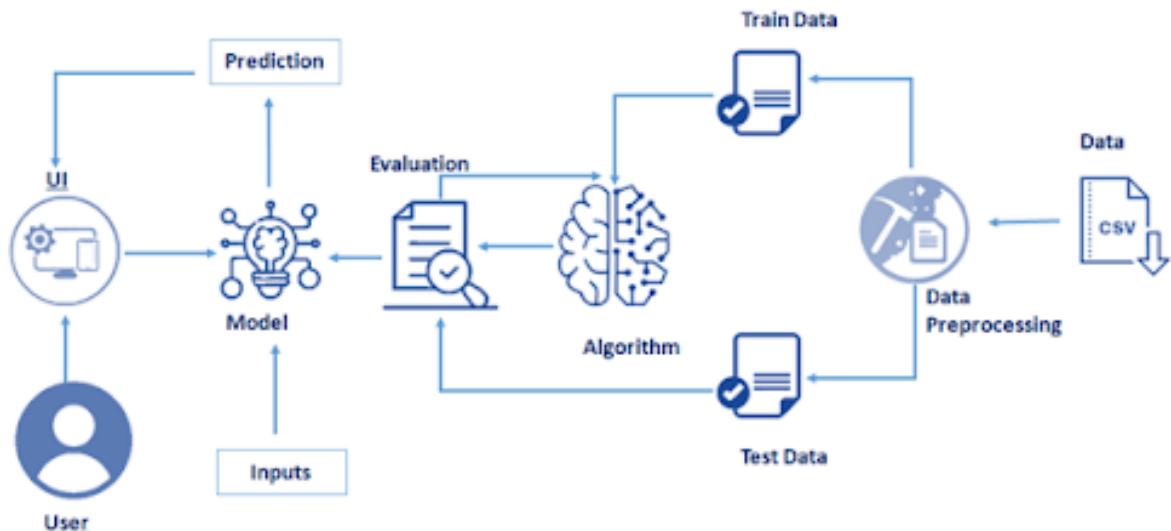


## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID35582
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

### Technology Architecture:



**Table -1 :- Components and Technologies**

S.NO	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc	MySQL, NoSQL, etc.

<b>6.</b>	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
<b>7.</b>	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
<b>8.</b>	External API-1	Purpose of External API used in the application	External LinkedIn API.
<b>9.</b>	External API-2	Purpose of External API used in the application	Aadhar API, etc.
<b>10.</b>	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
<b>11.</b>	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

<b>S.NO</b>	<b>Component</b>	<b>Description</b>	<b>Technology</b>
<b>1.</b>	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
<b>2.</b>	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
<b>3.</b>	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used
<b>4.</b>	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
<b>5.</b>	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used

## References:

<https://c4model.com/>

<https://aws.amazon.com/architecture>

<https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d>