

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

Date	29 October 2022
Team ID	PNT2022TMID34819
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

Technical Architecture:

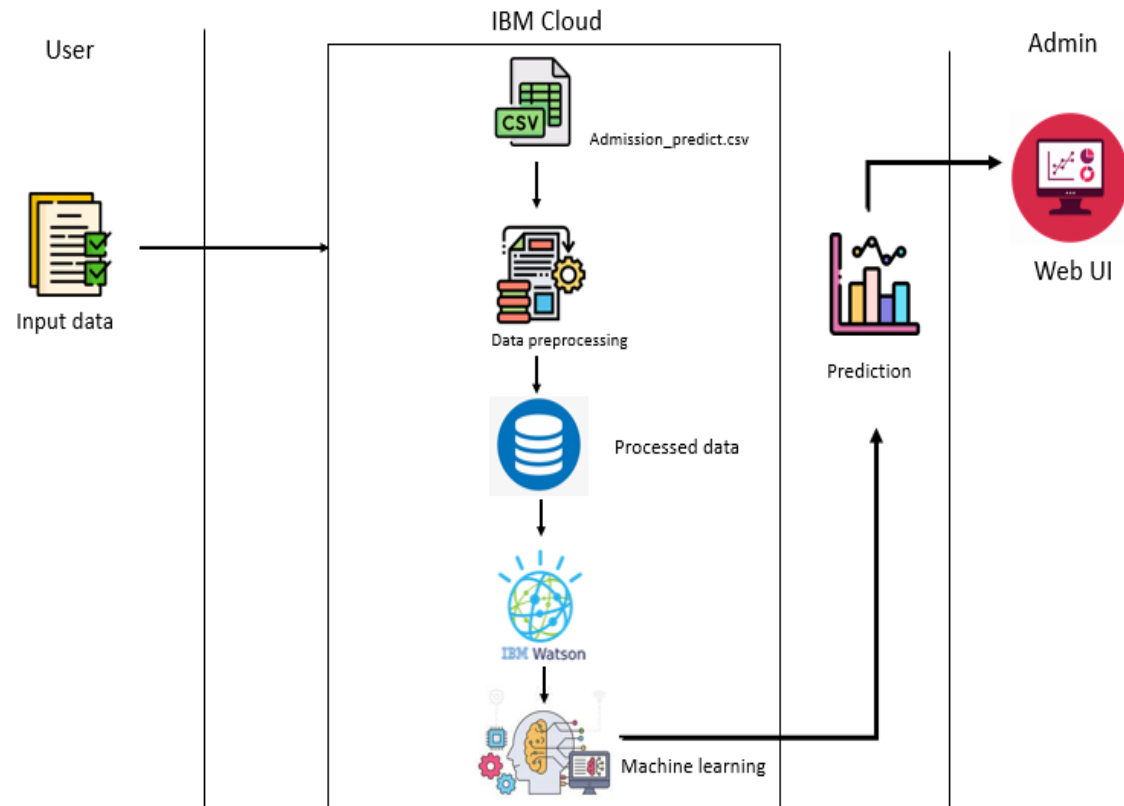


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts with application through a Web UI	HTML, CSS, Python
2.	Application Logic-1	Logic for collecting the input from the user	Python
3.	Application Logic-2	Integrating machine learning model with the application	IBM Watson Studio
4.	Database	Numeric data	MySQL
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
6.	Machine Learning Model	Predictive modelling is a mathematical process that used to predict future events or outcomes by analysing patterns in a given set of input data	Predictive Modelling
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System Local Server Configuration: Built-in flask web server	Web server

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python flask framework is used	Framework with Python

S.No	Characteristics	Description	Technology
2.	Security Implementations	The security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	The scalability of architecture (3 – tier, Micro-services)	Machine Learning
4.	Availability	The availability of application is accessible at anytime	Machine Learning