

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

Date	27 October 2022
Team ID	592545
Project Name	Garment Worker Productivity Prediction Using Machine Learning
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

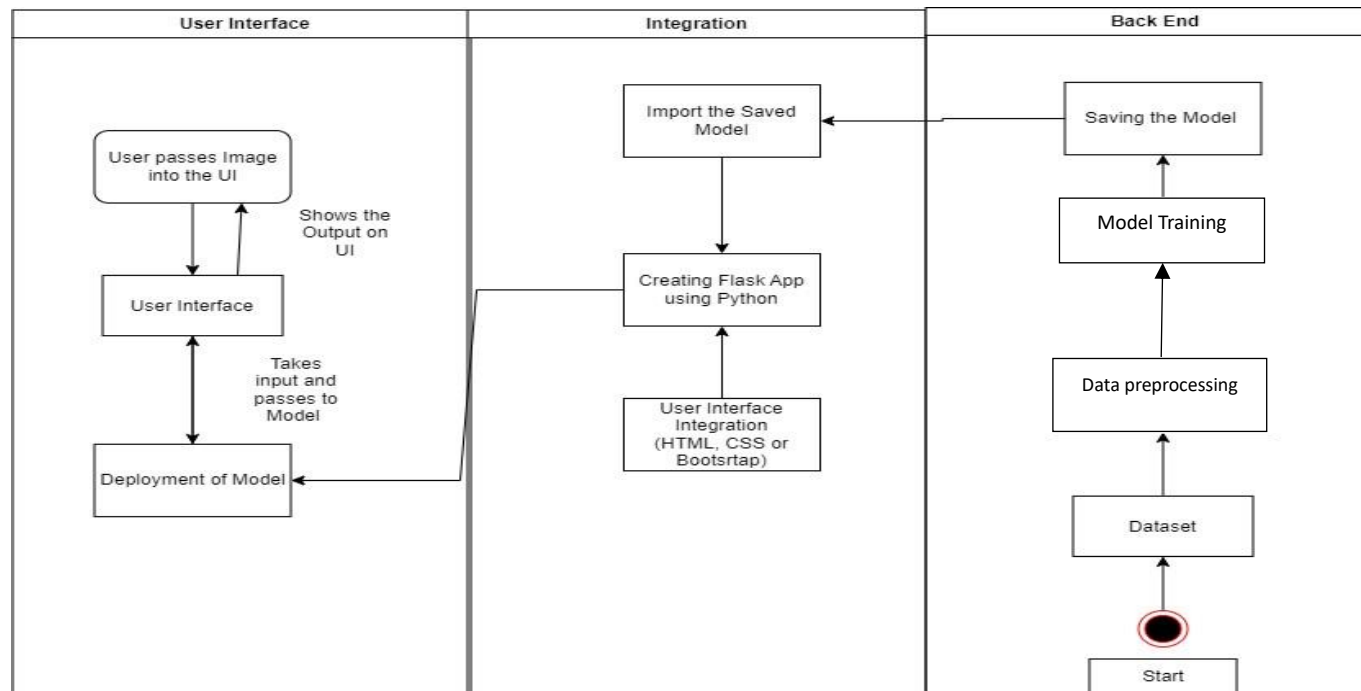


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Python
3.	Database	Collect the Dataset Based on the Problem Statement	File Manager, MySQL, etc.
4.	File Storage/ Data	File storage requirements for Storing the dataset	Local System, Google Drive Etc
5.	Frame Work	Used to Create a web Application, Integrating Frontend and Back End	Python Flask, etc
6.	Deep Learning Model	Purpose of Model	Linear Regression, Random Forest etc.
7.	Infrastructure	Application Deployment on Local System	Local

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python's Flask
2.	Security Data	Encryption and secure access controls	Technology used.
3.	Scalability	Flexible 3-tier architecture and microservices	Technology used.
4.	Availability	Load balancing, disaster recovery plan	Technology used.
5.	Performance	The application is optimized for handling a substantial number of requests per second. It efficiently utilizes cache mechanisms and Content Delivery Networks (CDNs) for improved response times and reduced latency.	Technology used.