TECHNOLOGY ARCHITECTURE
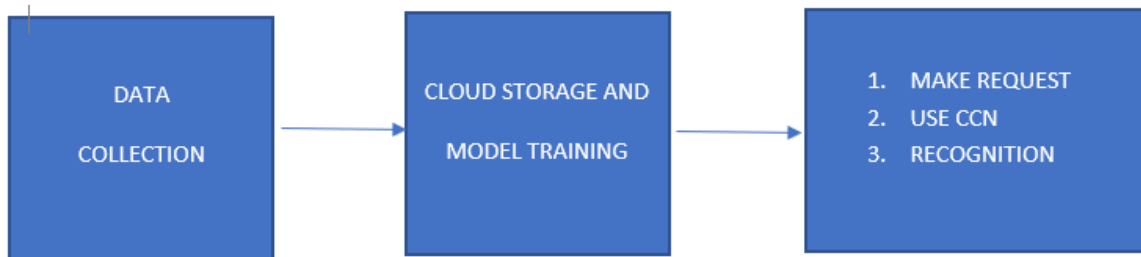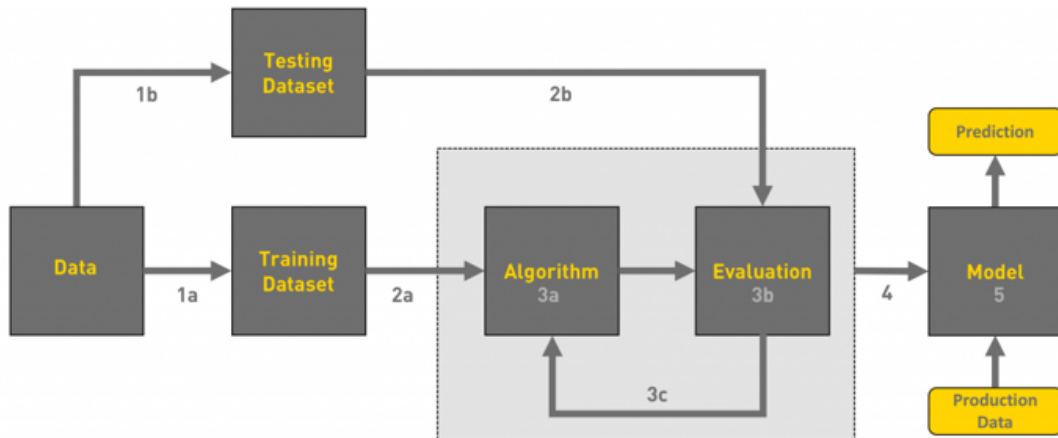
Components and technologies

COMPONENTS	DESCRIPTION	TECHNOLOGY
User interface	User interactions and design eg:web UI , mobile app etc	Html,css,javascript
Application logic -1	Process like model training and testing	python
Application Logic -2	deploy	Flask
Database	Store data	sql
Cloud database	Store data on cloud	IBM DB2,IBM Cloudant

File Storage	File storage and requirements	IBM Block storage

Application Characteristics

Characteristics	Description	Technology
Availability	available at any time and available to be accessible from any part of the world at anytime	IBM CLoud
Performance	Performance greatly impacts your business and can make all the difference during periods of heavy activity. 1.deep neural networks 2. High accuracy	CNN Python and tensorflow for model building. Number of requests per second.
Ease of Use	A website should be easy to use with friendly and quick navigation to move around different pages on site	Using html,css and javascript
Scalability	You should have sufficient infrastructure to support your website and its visitors.	Best of IBM services
Open sourced	Free to use and flexible	Python ,tensorflow and keras And other stack

- Understanding the data.
  - Importing the required libraries
  - Loading the data
  - Analyzing the data
  - Reshaping the data.
  - Applying One Hot Encoding
- Model Building
  - Creating the model and adding the input, hidden and output layers to it
  - Compiling CCN model
  - Training the CCN model

- ○ Predicting the result
  - ○ Testing the model by taking image inputs
  - ○ Saving the model
- Application Building
  - ○ Create an HTML file
  - ○ Build Python Code
  - ○ Web Application using javascript