

# VSB Engineering College , karur

## Project Design phase – II

### **Technology Stack (Architecture & Stack)**

IBM Nalaiya thiran

Electronics and communication department

*Title : Visualizing and predicting heart disease with an interactive dashboard*

Domain : Data Analytics

Team Leader : Abirami T

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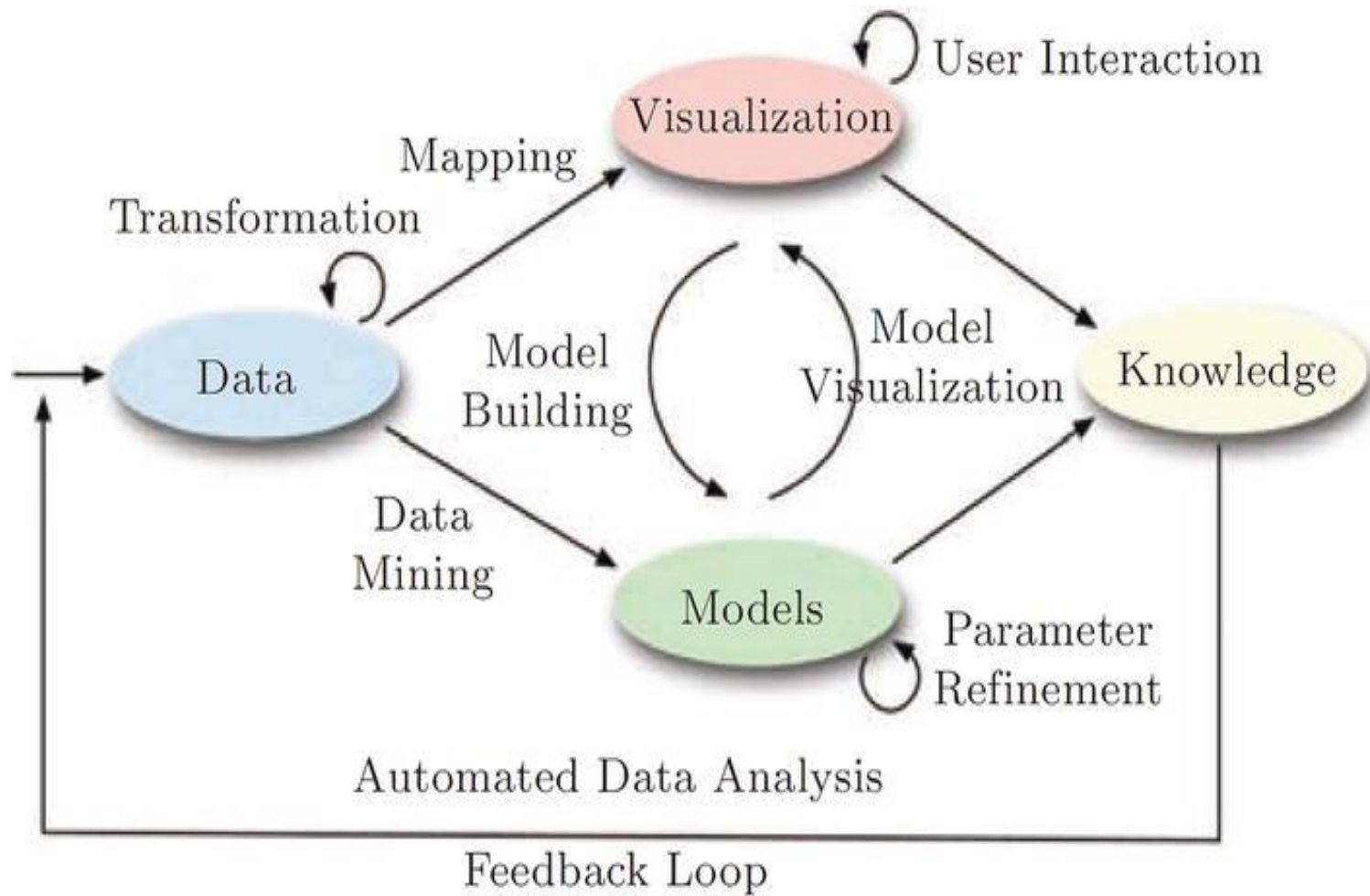


Table-1 : Components &amp; Technologies:

S.NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1.	User Interface	How user interacts with mobile application : Mobile app,Chat bot.	HTML, CSS, Javascript,etc.,
2.	Application Logic-1	Logic for a process in the application	Java
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 configuration, etc	MYSQL
6.	Cloud Database	Database service on cloud	IBM DB2
7.	File Storage	File storage requirements	IBM block storage or Local file system
8.	External API-I	Purpose of External API used in the Application	IBM weather, Aadhar, etc
10.	Machine Learning Model	Purpose of Machine learning Model	transform the data, and extract hidden correlations in the data
11.	Infrastructure(Server/Cloud)	Application Deployment on Local System /Cloud local server configuration / Cloud server configuration	Personal Server, IBM cloud server

Table-2: Application Characteristics:

S.NO	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1.	Open Source Frameworks	List the open-source frameworks used	Technology of Open source framework
2.	Security Implementation	List all the security / access controls implemented, use of firewalls etc.	e.g. Encryptions, IAM Controls, etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used –ViDAS, IaaS, PaaS, SaaS (IBM Cloud).
4.	Availability	Availability of application	Technology used- The Availability of getting used to this software or product design is through by accessing IBM cognos Analytics and IBM cloud.
5.	Performance	Performance of application	It will discuss the steps that were taken to evaluate ViDAS and to obtain important feedback, which was then used to improve the tool and also the healthcare and welfare.