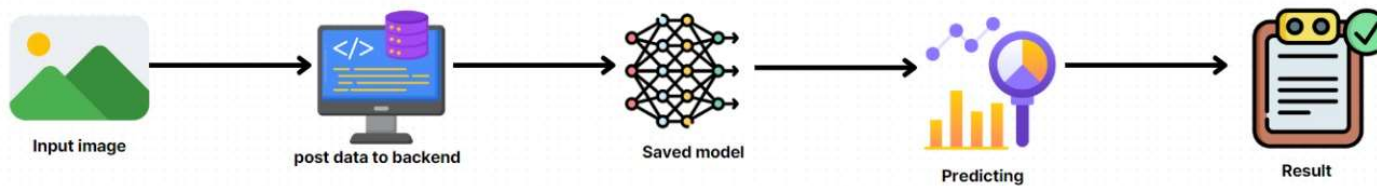
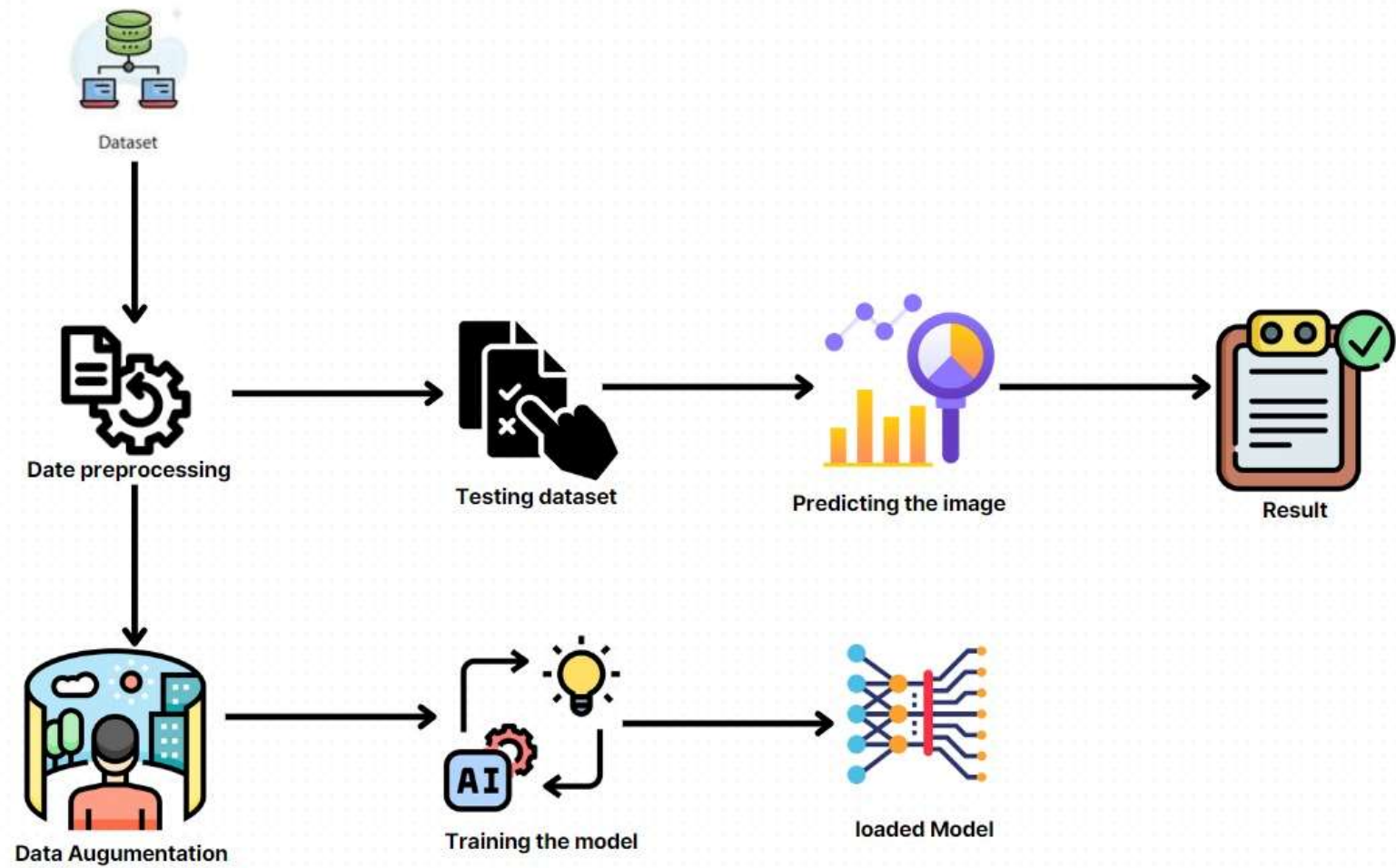


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	8 November 2023
Team ID	SI-GuidedProject-611456-1698332996
Project Name	Project – Dog Breed Identification Using Transfer Learning
Maximum Marks	4 Marks

**Technical Architecture:**





**Table-1: Components & Technologies:**

S. No	Component	Description	Technology
1.	User Interface	Web Application	HTML, CSS, JavaScript, Angular JS.
2.	Application Logic-1	Sending requests to the backend	JavaScript
3.	Application Logic-2	Predicting the results using Flask	Python
4.	File Storage	Stores the images uploaded by the user	Local Filesystem
5.	Machine Learning Model	Dog breed identification using Transfer Learning	ImageNetV2 Model
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System	Local, https://127.0.0.1:5000

**Table-2: Application Characteristics:**

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Kaggle, Flask, VS Code for code editor	Python, JS
2.	Scalable Architecture	Monolithic Architecture	Python, HTML, CSS, Flask
3.	Availability	Ensures availability through Flask's handling of user requests and responses	Flask, HTTP Protocol
4.	Performance	Manages file uploads and image processing efficiently to optimize application performance	Flask, TensorFlow, Keras
5.	External Libraries	Uses external libraries for deep learning (TensorFlow, Keras) and Flask for web application development	TensorFlow, Keras, Flask

