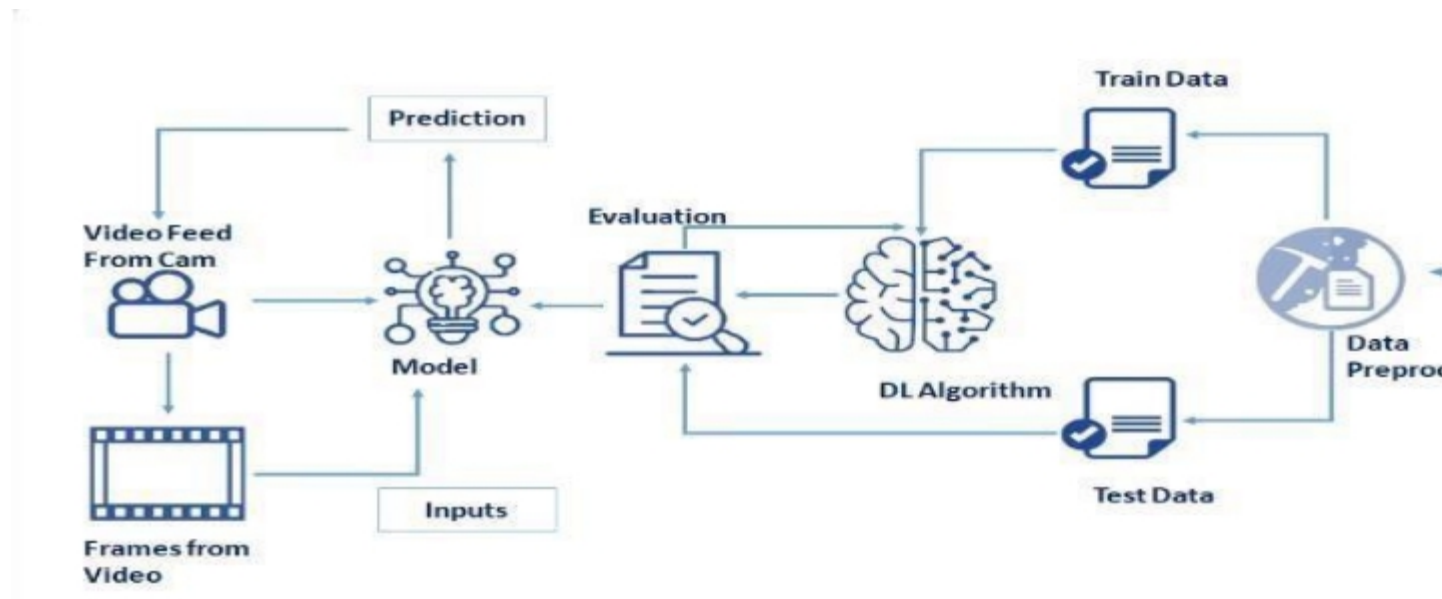


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

<b>D a</b>	1 2
<b>Tea m ID</b>	P N
<b>Proj ect</b>	Natural Disasters Intensity Analysis
<b>Maxim um</b>	4 M

Technical Architecture:



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

S	C	D	T
.	o	e	e
1	U	User interacts with application for the prediction of Any Natural disaster which will	HTML, CSS, JavaScript, Django, Python.
2	Feature Engineering Pipeline	Algorithms can't make sense of raw data. We have to select, transform, combine, and otherwise prepare our data so the algorithm can find useful	Image processing, pattern extraction, etc.

3.	Model Training kit	It learns patterns from	Multiclass Classification Model, Decision Model
4.	Prediction unit	This function is used to predict	Decision trees, Regression, Neural networks.
5.	Evaluation system	It monitors that how Algorithm	Chi-Square, Confusion Matrix, etc.

6.	Interactive services	To interact with our model and give it	Application programming interface, etc.
7.	Data collection unit	Data is only useful if it's accessible, so	IBM Cloud, SQL Server.
8.	Data generation system	Every machine learning application	Synthetic data generation.
9.	Database management system	An organized collection of data stored in	MySQL, DynamoDB etc.
10.	IBM Cloud services	Processed data stored in cloud service	IBM Cloud etc.

**Table-2: Application Characteristics:**

S .	Chara cterist	D e	Te ch
1	Open-Source Frameworks	An open source framework is a template for software development that is designed by a social network of software developers. These frameworks are free for public use and	Keras, tensor flow.
2	Aut he nti	This keeps our models secure and makes sure only those who have permission can use them	Encryption and Decryption (OTP)
3	Applicati on interface	User uses mobile application and web application to interact with	Android and Web Development (PhoneGap,
4	Availability (both Online and Offline work)	Its include both online and offline work. As good internet connection is need for online work to explore the software perfectly. Offline work includes	Caching, backend server.

5	Regular Updates	The truly excellent software product needs a continuous process of improvements and updates. Maintain your server and make sure that your content is always up-to-date.	Waterfall Approach Incremental Approach Spiral
6	Personalization	Software has features like flexible fonts, backgrounds, settings, colour themes, etc. which make a software interface looks good and	<ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul> H u b