



Project Phase Report - 4

INTP22-ML-5: Power Line Fault

Detection
Sshubam Verma





PROJECT OBJECTIVES FOR THE PHASE:

- Deploy the model in a Basic Flask App to accept a csv of Signal values and process it to the model for making a prediction
- Work on making a good User Interface for the App
- Host the Flask app on Heroku
- Solve related code issues



PHASE - 4 PROGRESS



APP PROCESS FLOW DIAGRAM

CSV Containing Signal Voltage Values CSV to be uploaded on the UI

Gets POSTed to our App and is saved in a tmp folder

Converted to numpy array



Model outputs probability of fault in the power line

Loaded
TensorFlow
model gets
called

Array of Signal Values passed through the Saved model

Add and adjust dimensions to fit to our model

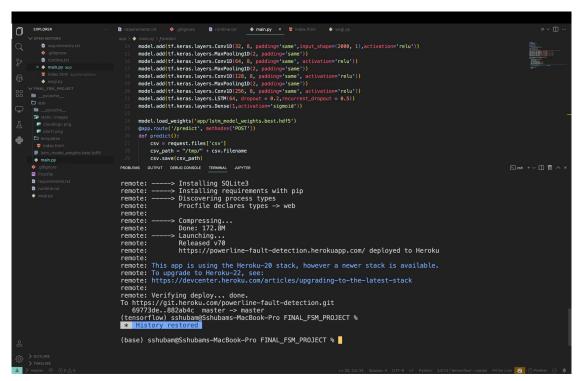


Prediction is rendered on the web page



PHASE - 4 PROGRESS



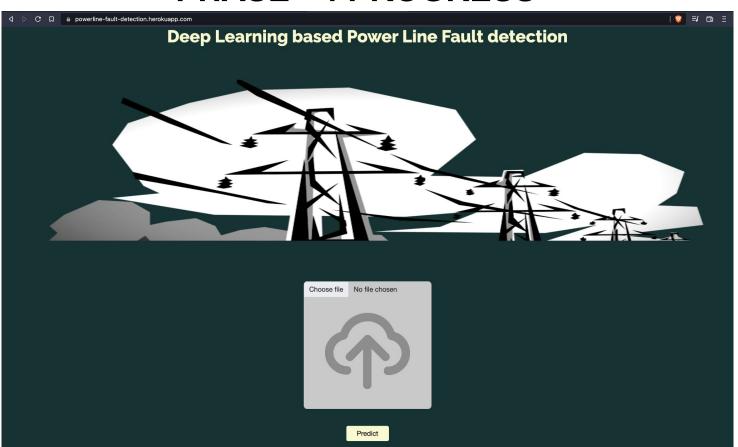


Successfully deployed, hosted and tested my web app for predicting Fault in Power Lines using Deep Learning, completing the end-to-end process. After solving all the dependency and internal app issues, version 70 is now live on Heroku.



PHASE - 4 PROGRESS









Code



Gantt Chart



Gantt Chart LINK

PROJECT TRACKING

PROJECT TITLE PROJECT COORDINATOR			Power Line Fault Detection DEVESH TARASIA					COMPANY NAME	IAFSM 01/06/2022 DELIVERABLES	
								DATE		
			PROJECT DETAILS				4			
STATUS		PRIORITY	START DATE	END DATE	DURATION	TASK NAME	ASSIGNEE	DESCRIPTION	DELIVERABLE	% DONE
Droject In	itiati	on brief	fing and pla	nnina						100%
In Progress		-	• 01/06/2022	06/06/2022	5	Anglusia	Cabubana Vanna	Problem statement analysis		100%
In Progress	▼ Hi		07/06/2022	10/06/2022	3	Analysis Research	Sshubam Verma	Read and analyse related research papers		100%
In Progress	▼ Hi	gh	11/06/2022	15/06/2022	4	Data Cleaning	Sshubam Verma	Understanding data and Exploratory Data Analysis		100%
In Progress	▼ Hi	gh	15/06/2022	24/06/2022	9	Modelling	Sshubam Verma	Model Building and Training		100%
Not Yet Started	▼ Me	edium	25/06/2022	28/06/2022	3	Tuning	Sshubam Verma	Model Hyperparameter tuning		100%
Not Yet Started	▼ Hi	gh	29/06/2022	10/07/2022	11	Testing	Sshubam Verma	Model comparison and testing		100%
Not Yet Started	▼ Hi	gh	11/07/2022	25/07/2022	14	Deployment	Sshubam Verma	Model Deployment		100%
										4000
Project Su	ıbmi	ssion ar	nd Presenta	tion						100%
In Progress	▼ Hi	gh	05/06/2022	10/06/2022	5	Task	Sshubam Verma	Phase Report - 1		100%
In Progress	▼ Hi	gh	20/06/2022	30/06/2022	10	Task	Sshubam Verma	Phase Report - 2		100%
Not Yet Started	▼ Hi	gh	05/07/2022	10/07/2022	5	Task	Sshubam Verma	Phase Report - 3		100%
Not Yet Started	▼ Hi	gh	15/07/2022	25/07/2022	10	Task	Sshubam Verma	Phase Report - 4		100%