

BY THILAK CEBOLU MOHAN

ingoduce ABOUT ME

I am a quick learner with no trepidation when new tasks are thrown at me. My innate gregarious nature only bolsters my work in team situations. I aim to expand my career prospects through a Master's in Artificial Intelligence.



THILAK MOHAN

VISION

To help the class of people that are overlooked, unappreciated, and disinterested through innovation and technology.

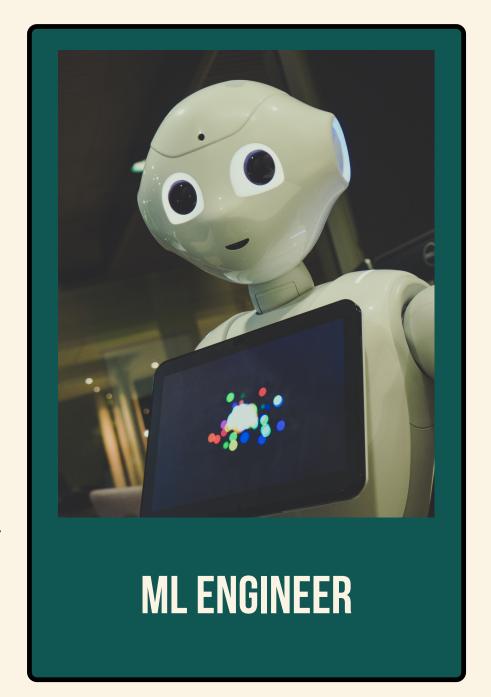
MISSION

To create advancements in AI algorithms and techniques that ease the lives of people.

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SIZILS

Tools and Technologies: Python, Machine Learning, Deep Learning, NLP using nltk and spaCy, Scikit Learn, Tensorflow, PyTorch, Keras, Spark ML, fastai, HuggingFace, C, C++





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EDUCATION BACKGROUND

2019 2023

HIGH SCHOOL :
AMAATRA ACADEMY

Finished 10th with 10CGPA Finished 12th with 89%

UNDERGRADUATE DEGREE: VELLORE INSTITUTE OF TECHNOLOGY

Graduation date: 6/2023 8.9 CGPA

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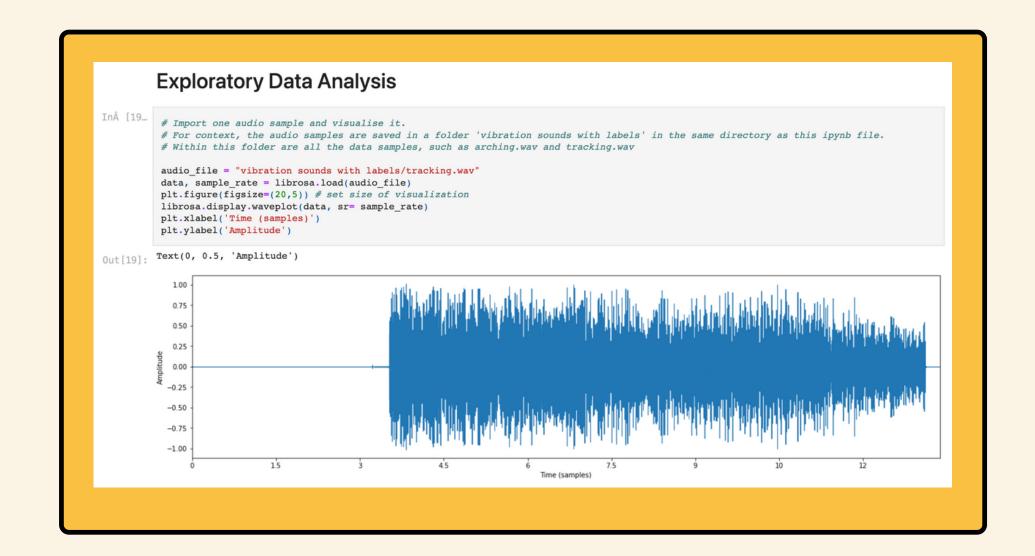
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EXPERIENCE

Company: KFX Labs, Bangalore

Role: Machine Learning Intern

I designed a Machine Bearing Fault Detection system employing Vibrational Acoustic Data.





Here is a summary of the projects that best represent my work. For more information, check out my github account.

ROAD TRAFFIC

ACCIDENT SEVERITY

PREDICTION

AUDIO CLASSIFICATION

PATIENT SURVIVAL DETECTION

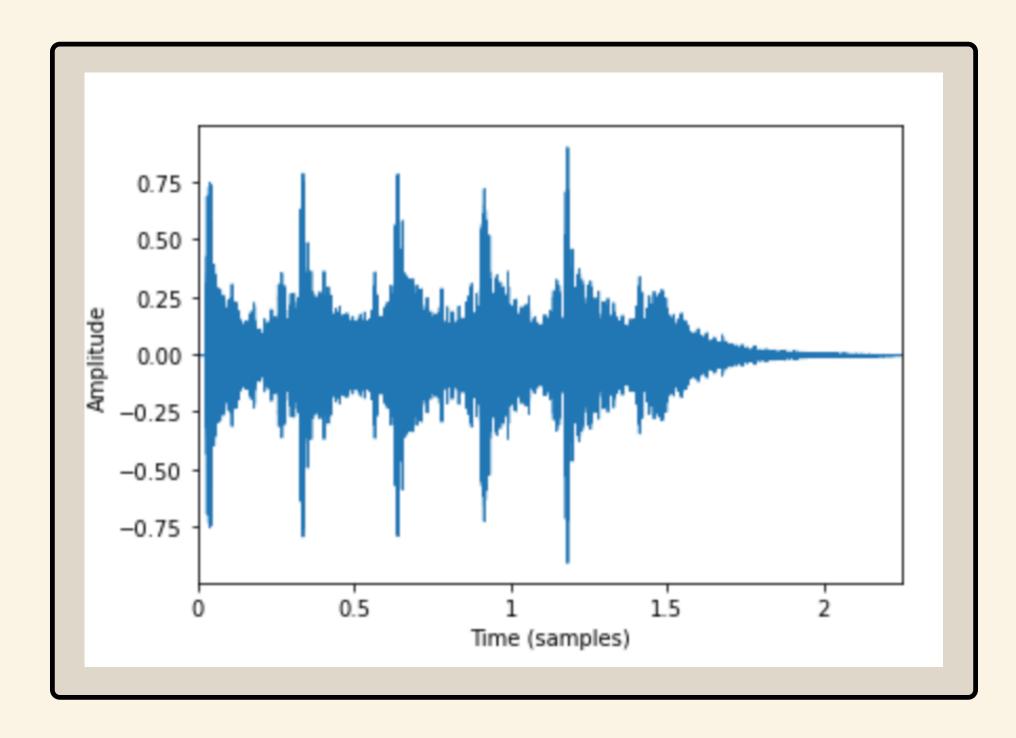
ROAD TRAFFIC ACCIDENT SEVERITY PREDICTION

Aim: To classify the target feature 'accident severity'.

Libraries used: Pandas, Numpy, Matplotlib, SMOTE, Seaborn, K-Fold Cross Validation

train_model(xt	ree, X_train	ı, y_train,	X_test,	y_test)
	precision	recall	f1-score	support
Fatal injury	0.67	0.08	0.14	52
Serious Injury	0.60	0.08	0.14	552
Slight Injury	0.85	0.99	0.91	3091
accuracy			0.84	3695
macro avg	0.71	0.38	0.40	3695
weighted avg	0.81	0.84	0.79	3695
The accuracy of	classifier	is 84.19%		

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AUDIO CLASSIFICATION

Aim: To classify audio signals

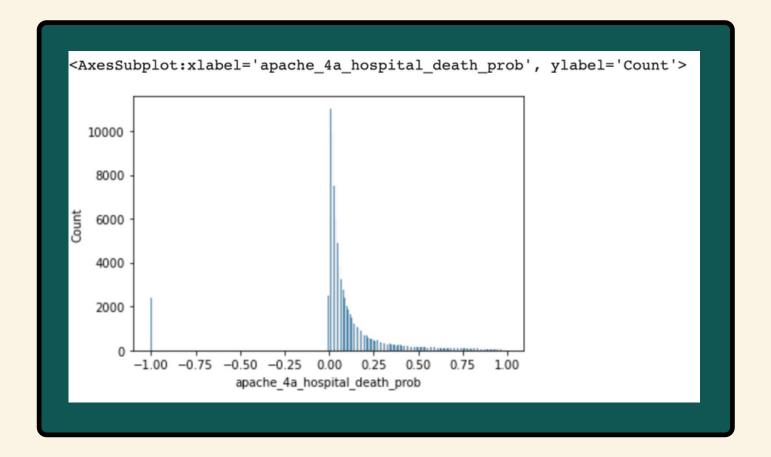
Libraries used: Librosa, Scipy, Pandas,

NumPy, Matplotlib, TensorFlow

I used the Mel-Frequency Cepstrum Coefficients method to extract features from audio files that were then fed to the feedforward neural network model.

PATIENT SURVIVAL DETECTION

n [Â	<pre>print(classification_report(y_test, predictions))</pre>						
,		precision	recall	f1-score	support		
	0	0.94	0.98	0.96	24070		
	1	0.64	0.31	0.42	2073		
	accuracy			0.93	26143		
	macro avg	0.79	0.65	0.69	26143		
	weighted avg	0.92	0.93	0.92	26143		



Aim: To classify the target variable 'hospital death'.

Libraries Used: Pandas, Numpy, Matplotlib, Seaborn, TensorFlow, SHAP, shapely



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