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PPR Details

Periodic Progess Report : First PPR

 Project : Forest Fire Detection

Status : Submitted

1. What Progress you have made in the Project ?

We had started the implementation of our project "Forest Fire Detection". We worked on building a machine learning model which can be trained by using the dataset of fire images. This trained model can be used to achieve higher accuracy than any other fire detection technique. We also studied various research work conducted by various organizations and developers to understand the working of a machine learning model. We also learned about different algorithms which can be used for image detection.

2. What challenge you have faced ?

Out of all the machine learning algorithms that can be used for our project, we had to select the most efficient algorithm in order to attain the best possible results. We needed to check all the applicable algorithms and their performance for detecting fire from images and then select the one which develops the best outcome and accurately identifies fire from the images.

3. What support you need ?

We need to develop a machine learning model using a suitable machine learning algorithm that can be used to identify whether fire is present in an image or not. We need to develop an algorithm that can search for the fire pixels in an image and if there are fire pixels present in the image it should be labeled as fire images and the images without fire in it should be labeled as non-fire images.

4. Which literature you have referred ?

Research Paper: Deep Convolutional Neural Networks for Forest Fire Detection Link: http://scholar.google.co.in/scholar_url?url=https://download.atlantis-press.com/article/25850411.pdf&hl=en&sa=X&ei=0Y1hYP2pFc20ywSe363ACQ&scisig=AAGBfm2F73bHlE1KGUb-gTiFfPTbsRXznA&nossl=1&oi=scholarr Authors: Qingjie Zhang, Jiaolong Xu, Liang Xu and Haifeng Guo

Comments

Comment by Internal Guide :
None

Comment by External Guide :
None

Comment by HOD :
None

Comment by Principal :
None

Comment by University Admin :
None