Seemakurthi Kushal Kumar

Gradute student from IIT Dharwad



☐ 7013246322 ☐ seemakurthikushal@gmail.com ☐ 11-198, Tarakaramanagar, Tirupati, AP, PIN: 517502

I'm a Graduate*

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I'm quite an enthusiastic student of Mechanical Engineering at IIT Dharwad. I'm quite an enthusiastic student and eager to learn new skills. Grasping knowledge is one of the mo important motives for me and learn new skills in no time. I'm highly motivated that I can work alone or Team.

Projects

Here we used opency to detect the faces using cam as well as the screen capturing. And then trained A TF model to detect the emotion the fce pocess. Dataset for Facial Emotion Detection is available on Kaggle. It has roughly 36,000 image dataset containing 7 types of emotions. But, here considered only 4 of then have been considered. Those are: Happiness, Surprise, Neutral, Disgusted. And By saving the trained model Facce_emotion.h5 and basic opency face detection, we can predict the face emotion of a person using cam, as well as using Sreen capturing

SMULATING SELF-DRIVING CAR

This Project is based on Deep learning to model to make a simulating car operate on a trained Deep Learning model. By taking screen recording and speed of the Velticle as the input to the model. The model progressed from the basic ML model to the CNN applied Deep Learning Neural Networks

Sign Language Recognition

Here we designed a CNN model to predict the signed. Data set is taken from Kaggle

Here we used Keras tuner to tune hyperperameters such as: Number of filters of conv2D layers, Rate of Dropout, Regularization Type and parameter, Number of hidden units of Dense layer, Learning Rate. And then trained A TF model to Classify the images from Cifar10 dataset. Dataset for training available from keras datasets. It has roughly 60,000 image dataset containing 10 types of classes. But, here considered only 6 of then have been considered. Saved the trained model as final_model_1_reg.h5, and got 75% accuracy for the test data set it contains roughly 6000 images.

algorithm. And I've modeled a system that can play similar songs and ustered songs of resonating feel. In this, we used various MI techniques such as Recommendation systems, K-means, KNN, dhscan PCA etc

Titanic Survival prediction

Here we used a Machine Learning to predict the survival of the senger of Titanic. Its a Logistical regression which Yeilds accuracy of 80% on test dataset.

Education

Mechanical Engineering @ IIT Dharwad

Initially, I opted for Mechanical Engineering at IIT Dharwad, completing 1st year I got interested in programming. I opted for courses such as Machine Learning, Deep Learning later. My present working areas are Machine Learning, Deep Learning, Computer Vision, Competitive coding Python.

My current CPI: 7.59

12th Class @ Sri Chaitanya Academy Junior College I pursued MPC (Mathematics, Physics, Chemistry) course.

scored 962(out of 1000).

Experience

Data Science Intern @ Kaglorsys Technologies Pvt. Ltd

resently Working as Intern at Kaglors Technologies Pvt. Ltd. (June 2021 -

Member of Dial Organizing Team

I've been a member of organising team of Dial Program conducted at IIT Dharwad. DIAL @ IIT Dh, 2019.

Student Mentor @ IIT Dharwad

I've been a mentor to students at IIT Dharwad as a part of Mentorship progra (Aug 2018 - May 2019)

Certification

Machine Learning @ Coursera, Opted Machine Learning Course instructed in Coursera by Andrew No. 6	Structure Machine Learning Project @ Coursera.	Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization @ Coursera, Opted this Course in Coursera instructed by Andrew No. &	Neural Networks and Deep Learning @ Coursera, Opted this Course instructed in Coursera by Andrew No. 6
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Skills

Programing Languages



Libraries

TensorFlow	Keras	pandas	opency	NumPy	Seaborn	Matplotlib	Scikit-Learn	Bootstrap	

Techniques

Machine Learning Deep Learning	Image Processing	Data Structures	Algorithms	Object-Detection	PID Controls
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Languages

English

Professional working proficiency

Teluau

Native or bilingual proficie Hindi

Professional working profic

Achivements & AWARDS Been at 98.7 percentile

When I've given JEE Advance I've been in top 98.7 percentile of the total applicants

District 2nd ranker

ducted by SOCIETY FOR ADVANCEMENT OF SCIENCE & TECHNOLOGY ice Olym

Participated in DevHack 2.0

We made a prototype of sensory mobile device that can sense various factors for a crop in DevHack 2.0 in Parsec (IIT Dharwad Tech meet 2020). Sponsed by