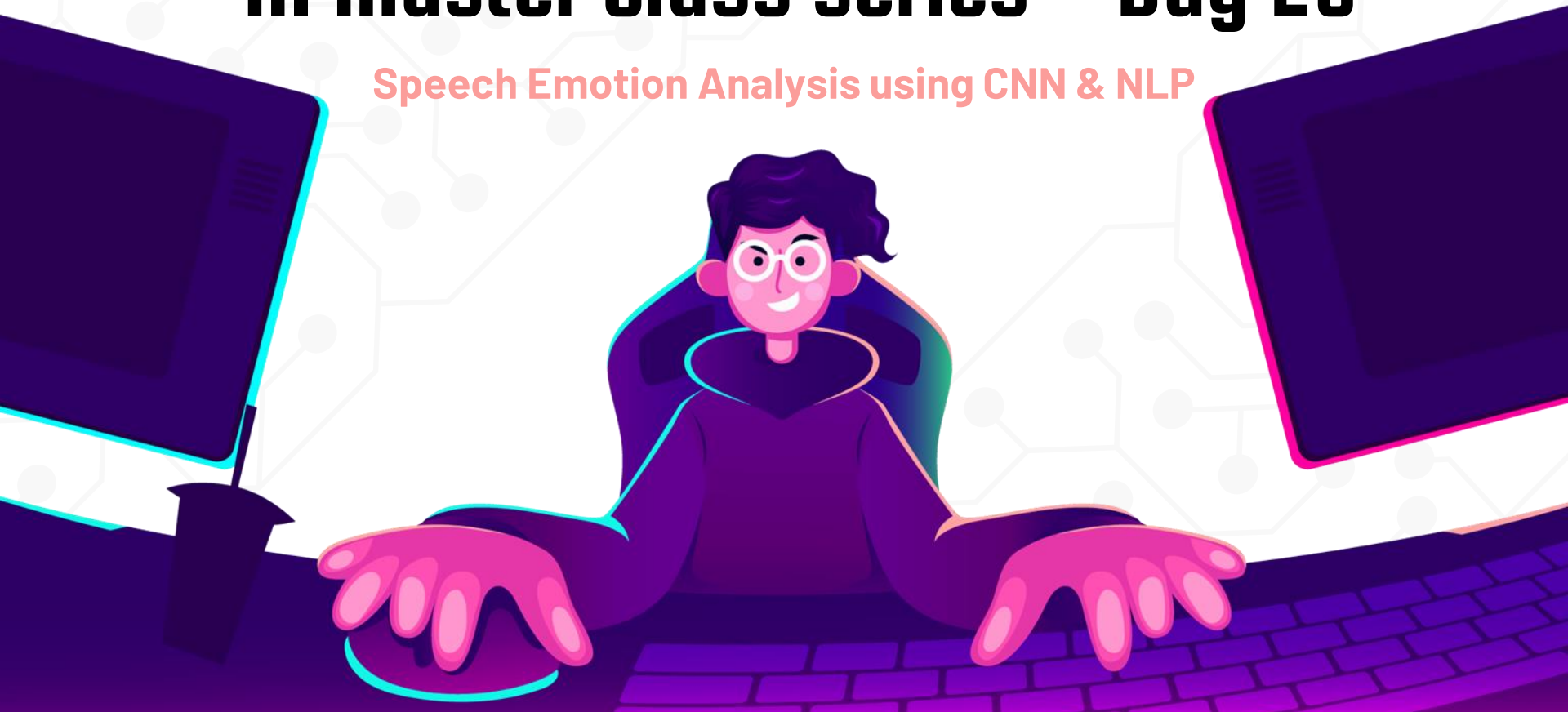
PANTECH SOLUTIONS®
Technology Beyond the Dreams

AI Master Class series – Day 28

Speech Emotion Analysis using CNN & NLP



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Day-28 Agenda.

01.

Speech & Emotion analysis

02.

Installing Libraries

03.

Speech Recognition & Emotion Analysis

04.

Q & A

Speech recognition

Speech recognition, or speech-to-text, is the ability for a machine or program to identify words spoken aloud and convert them into readable text.

Rudimentary speech recognition software has a limited vocabulary of words and phrases, and it may only identify these if they are spoken very clearly.

Sentiment Analysis

Sentiment analysis (also known as opinion mining or emotion AI) refers to the use of natural language processing, text analysis, computational linguistics, and biometrics to systematically identify, extract, quantify, and study affective states and subjective information.

Sentiment analysis helps data analysts within large enterprises gauge public opinion, conduct nuanced market research, monitor brand and product reputation, and understand customer experiences.

Installing Libraries

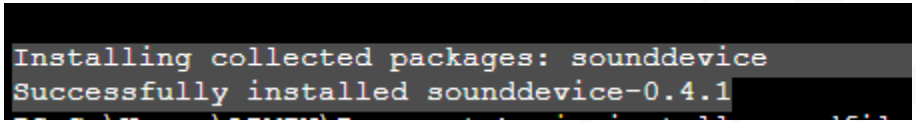
librosa – pip install librosa

```
Successfully built librosa audioread resampy
Installing collected packages: audioread, decorator, llvmlite, numba, resampy, pycparser, cffi, soundfile, appdirs, packaging, pooch, librosa
Successfully installed appdirs-1.4.4 audioread-2.1.9 cffi-1.14.3 decorator-4.4.2 librosa-0.8.0 llvmlite-0.34.0 numba-0.51.2 packaging-20.4 pooch-1.2.0 pycparser-2.20 resampy-0.2.2 soundfile-0.10.3.post1
```

librosa is a python package for music and audio analysis. It provides the building blocks necessary to create music information retrieval systems.

Installing Libraries

sounddevice – pip install sounddevice



Installing Libraries in Jupyter Notebook

Keras | Tensorflow

Download Dataset

https://www.kaggle.com/c/tensorflow-speech-recognition-challenge/data?select=train.7z

! PRACTICAL SESSION !

Speech Recognition

Sentiment Recognition

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Thanks!

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Tomorrow session

AI using Cloud