

Case Study: Image Captioning

M.Tech. Data Science, Second Year, NMIMS

Ву,

Bilal Hungund, Data Scientist, Halliburton

Image Captioning using CNN-RNN-DNN

The involves computer vision and natural language

To recognize the context of an image and describe them in natural language like English.

Model — CNN LSTM

(pre-trained)

model

Model Architecture <start7 Person standing <end> Isoftmax 1 Pretrained model Xception (1,1,2048) Embeddings Corpus <start> Person

Model design CNN (features)
(2048) RNN (longest sentence) Embeddings Dense 256 LSTM 256 (Vocab Size) Output Dense

256