KUNAL JETHURI

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EXPERIENCE

MACHINE LEARNING FELLOW

Fellowship.AI

January 2021 – Present Remote

- Currently working on fine tuning a multi model zero shot learner for in oven food classification using CLIP model.

RESEARCH INTERN

Defence Research and Development Organization (SAG)

June 2019 – Sept 2019 Delhi, India

- Worked on several Natural Language Processing projects such as Sentiment Analysis, Voice recognition, etc.
- Built a Spoken Language Identification model using Mel spectrogram and convolution recurrent neural network.

PROJECTS

Chatbot

Dec 2020 – Jan 2021

- Used the Reformer, also known as the efficient Transformer, to generate a dialogue between two bots.
- The Model learned not only how to answer questions but also to ask questions if it needs more info.

Satellite Image Segmentation for Flood Damage Analysis

Sept 2020 – Nov 2020

- Used UNET with Resnet-34 as the backbone for multiresolution, multisensor, and multitemporal satellite images.
- Showed that this model can perform building footprint and flooded building segmentation tasks.
- This approach is applicable to different types of flood events and could reduces the amount of time needed to produce flood maps for first responders compared to current methods.

Neural Style Transfer

Dec 2019

- Style transfer relies on separating the content and style of an image. Given one content image and one style image, we aim to create a new, target image which should contain our desired content and style components.

Spoken Language Identification

Jun 2019 – Sep 2019

- The goal of spoken language identification is to assign language labels to audio files containing utterances in one of the languages from a predefined set.

ACHIEVEMENTS

- Secured 460 international rank in IMO (International Maths Olympiad).

EDUCATION

Bachelor of Technology (Electronics & Communication)

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY

August 2017 – Present

- CGPA: 8.3/10

12th standard

V.N.B.S.S School

April 2015 – March 2017

- Percentage: 90%

High School

Green Fields School

April 2013 – March 2015

- CGPA: 10/10

COURSES

UNDERGRADUATE

- Introduction to Programming (C++)
- Data Structures and Algorithms
- Operating Systems
- Computer Architectures
- Microprocessors
- Database Management System

MOOCS

- Coursera's Machine Learning
- Udacity's Intro to Deep Learning with PyTorch
- Coursera's Convolutional Neural Network
- Coursera's Sequence Models
- Coursera's NLP with Attention Models
- CS230 Deep Learning (Stanford Online)
- fastai course-v4 (2020,2018)

SKILLS

Languages:

Python • C++ • C

Frameworks:

PyTorch • scikit-learn • Fastai • Trax

Other Skills:

Computer Vision • NLP • Flask

• Data Structures and Algorithms