

KUNAL JETHURI

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EXPERIENCE

RESEARCH INTERN

Defence Research and Development Organization

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

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 reduce the amount of time needed to produce flood maps for first responders compared to current methods.

Brain MRI Segmentation

Aug 2020 – Sept 2020

- Image segmentation is one of the most important tasks in medical image analysis and is often the most a critical step in many clinical applications
- The goal was to use UNET with Resnet34 as a backbone for automatic extraction of lower-grade gliomas with shape features.

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:
 - objects and their arrangement are similar to that of the Content Image
 - style, colors, and textures are similar to that of the Style Image

Spoken Language Identification

Jun 2019 – Sep 2019

- Spoken language is one of the distinctive characteristics of the human race.
- 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
- CS230 Deep Learning (Stanford Online)
- fastai course-v4 (2020)

SKILLS

Languages:

Python • C++ • C

Frameworks:

PyTorch • scikit-learn • Fastai

Other Skills:

Computer Vision • NLP • Flask

- Data Structures and Algorithms