

# KUNAL JETHURI

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## EXPERIENCE

### DATA SCIENCE FELLOW

#### Fellowship.AI

January 2021 – April 2021 Remote

- Worked on fine tuning a multi modal zero shot learner for in oven food classification using CLIP model.
- Created and deployed a custom designed app to showcase the results.

### 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 reduce 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