

# TUSHAR MITTAL



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techy\_tushar



tusharmit



techyushar

Machine Learning & Deep  
Learning Engineer

## Skills

### PROGRAMMING LANGUAGES

JavaScript

Python

C/C++

Shell

### TECHNOLOGIES

Scikit Learn

Numpy

Pandas

OpenCV

Tensorflow

Keras

Docker

GraphQL

jQuery

Bootstrap

Linux

Selenium

Django

Flask

Git

NLTK

### LANGUAGES

English

Hindi

## Employment

### SPDX

Google Summer of Code

Remote

Apr. 2018 to Aug. 2018

- The project was to build an online XML editor which can be used to create and edit the SPDX Licenses.
- It also included features such as making a pull request on GitHub, beautifying XML code, generating diff and validating it against the XML schema.
- Technologies Used: Django, SQL, JQuery, JavaScript, CSS, HTML

### CloudCV

Google Code-In Mentor

Remote

Oct. 2018 to Dec. 2018

- Finding bugs and enhancements in the Origami (AI as a service) project and creating tasks for the students to complete.
- Helping the school students to contribute to the project and reviewing their work.

## Projects

### Image Caption Generator

- Trained a deep learning model on the Flickr 8k dataset, to generate captions for an image.
- The model had an encoder-decoder architecture with LSTM, embedding and dense layers.
- Technologies used: Keras, Numpy, Scikit Learn

### Solar and Wind Energy Generation Prediction

- A mobile app to predict the amount of solar and wind energy that can be generated on a particular day.
- This will help minimize the energy generation from the non-renewable resources.
- Technologies used: Pandas, Numpy, Bokeh, Scikit Learn

### Hand Gesture Digit Recognizer

- Trained a Convolutional Neural Network to recognize digits from the hand gestures.
- Learnt many things such as Transfer Learning, handle overfitting, train models on cloud and data processing.
- Technologies used: Keras, TensorFlow, OpenCV, Numpy

### Facebook Archive

- A CLI tool which generates graphs and plots from your facebook data so you can get interesting insights about your social media activity.
- Technologies used: Python, Pandas, Numpy, Matplotlib

### Sentiment Analyser

- Trained a RNN on the twitter dataset to predict the sentiments from a given sentence.
- Technologies used: Pandas, NLTK, Keras, Tensorflow

## Education

### Kanpur Institute Of Technology

Bachelor of Technology (B.Tech) Computer Science 2020

Aug. 2016 to Present

CGPA: 8.1/10.0

### Coursera

Machine Learning

Deep Learning Specialization

June 2018 to Feb. 2019

## Extra-Curricular Activities

### Intel AI Student Ambassador

Intel AI Ambassadors are student technology leaders, empowered to build machine learning and AI communities on their campus and share their deep knowledge with their fellow students. Organised workshops and seminars on AI related topics.

### GitHub Campus Expert

GitHub Campus Experts is a community of students aimed at building technical community at their campus. Completed training modules provided by GitHub. Organized event, workshops and meetups at various colleges.

## Volunteering

### GirlScript Summer Of Code · Mentor

Remote

Present

GSSoC is an annual programming competition aimed at helping students to get started with open-source contribution. Guided students to get started with open source. Review their work and provide feedback. Help students with their doubts.

### Kanpur Python Meetup · Organizer

Kanpur

Present

Giving talks on topics related to Python, helping people with their doubts and bugs, and building a community of people who love to code and are eager to learn.

### PyData Kanpur · Co-Organizer

Kanpur

Present

Organising workshops and meetups on topics related to Data Science, Machine Learning and various frameworks in Python.