TUSHAR

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Data Science and Machine Learning Engineer

Skills

PROGRAMMING LANGUAGES

JavaScript

Python

C/C++

Shell

TECHNOLOGIES

Scikit Learn

Numpv

Pandas

OpenCV

Tensorflow

Keras

Docker

GraphQL

iQuery

Linux

Selenium

Diango

Flask

Git

NITK

Spacy

Bokeh

SQL

LANGUAGES

Enalish Hindi

Achievements

Selected to attend GSoC Mentor Summit in Germany

Runner Up at HCL AI Hackathon

Finalist at Smart India Hackathon 2019

Selected as Mentor at Hack in the North (IIIT Allahabad) and Hack on Hills (NIT Hamirpur)

Contributed to Open Source Projects such as: Pandas, FOSSASIA, AboutCode, CloudCV

Employment

Google Summer of Code Intern

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

Google Code-In Mentor

Remote Nov. 2019 to Current

Remote

Tensorflow

· Finding bugs, suggesting enhancements and improving tutorials in the Tensorflow project. Helping the school students to contribute to the project and reviewing their work.

Projects

Image Caption Generator

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

Tourism Sentiment Analysis

- Predict ratings on different aspects of restaurant and extract keywords from reviews.
- · Analyse review images using CNNs with Transfer Learning.
- Technologies used: Pandas, NLTK, Keras, Tensorflow, Gensim, Fasttext

Interpretable Machine Learning

- Implemented CAM, GradCAM and ScoreCAM algorithms to visualise parts of image that CNN focuses on.
- This helps to understand why the CNN is giving out a certain prediction..
- Technologies used: Keras, Tensorflow, Pandas, Numpy

Dogs Images Generation using GANs

- · Trained DCGAN and CGAN model on the Stanford Dogs Dataset to generate new images of dogs.
- Technologies used: Python, PIL, Numpy, Keras, Tensorflow

E-Commerce Scrapper

- · A CLI tool to scrape prices, ratings and images of the given product from Amazon, Flipkart and Snapdeal.
- · Technologies used: Selenium, BeautifulSoup, Python

Education

Kanpur Institute Of Technology

Aug. 2016 to Current

June 2018 to Feb. 2019

Bachelor of Technology (B.Tech) Computer Science 2020 CGPA: 8.0/10.0

Coursera Machine Learning by Andrew Ng

Deep Learning Specialization

Activities

Intel Al Student Ambassador

Intel AI Ambassador 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

Current

Remote

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 & PyData Meetup · Organizer

Current

Kanpur

Giving talks on topics related to Python, Data Science, Machine Learning and various frameworks in Python. Helping people with their doubts and bugs, and building a community of people who love to code and are eager to learn.