TUSHAR MITTAL

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Machine Learning Engineer

Skills

PROGRAMMING LANGUAGES
Python
JavaScript
C/C++
Shell

TECHNOLOGIES
TensorFlow
Numpy
Pandas
OpenCV
Scikit Learn
Keras
Docker
GraphQL
jQuery
Linux
Selenium
Flask
Git
NLTK
Spacy
SQL
MongoDB
ElasticSearch

Achievements

Selected to attend GSoC Mentor Summit in Germany

Kaggle Discussion Expert

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

Precily   New Delhi
Data Science Intern (NLP)   Jan. 2020 to Sept. 2020
- Worked on various **Semi-supervised** and **Unsupervised** techniques for **text classification** and **similarity**.
- Implemented new models by reading **research papers** and made modifications to already implemented **SOTA models**.
- Worked with domain experts to understand, clean and model the **legal text data**.
- Worked on **testing** of the models and **deploying** them to **production**.

Google Summer of Code Intern   Remote
SPDX   Apr. 2018 to Aug. 2018
- Built an online **XML editor** which can be used to create and edit the **SPDX Licenses**.
- Included features such as making **automatic pull request** on GitHub, **beautifying XML**, **generating diff** and **validating XML schema**.
- **Technologies Used**: Django, SQL, JQuery, JavaScript, CSS, HTML (**Link**) (**Commits**)

Projects

Semantic Search Engine
- Built a semantic search engine on manually **scrapped GitHub dataset** to return **top similar questions**.
- Focus was given on capturing **sentence meaning**, **speed** and **scalability**.
- **Technologies used**: Docker, ElasticSearch, NLTK, Gensim, Flask (**Link**)

Dog Images Generation using GANs
- Trained **DCGAN** and **WGAN** model on the **Stanford Dogs Dataset** to generate new images of dogs.
- **Technologies used:** Python, PIL, Numpy, Keras, TensorFlow (**Link**)

Video Sentiment Analysis
- Trained custom **SSD Mobilenet** Object Detection Model to detect **cartoon faces** in a video.
- Trained a **CNN classifier** to predict the **expression** using the bounding box image.
- **Technologies used:** TensorFlow, OpenCV, Numpy, PIL (**Link**)

Data Extraction using OCR
- Extracted **Dates** and **Amount** from images of **Bill Receipts**.
- Extensive **image processing** was applied to **improve accuracy**.
- **Technologies used:** PIL, OpenCV, Tesseract, Numpy (**Link**)

Education

Kanpur Institute Of Technology   Aug. 2016 to July 2020
Bachelor of Technology (B.Tech) Computer Science and Engineering
CGPA: 7.8/10.0

Coursera
Machine Learning by Andrew Ng
Deep Learning Specialization
Introduction to MongoDB

Activities

Intel AI 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. (**Link**)

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. (**Link**)

Volunteering

Google Code-In Mentor · CloudCV   Oct. 2018 to Jan. 2020
Implementing new features, suggesting improvements and fixing bugs in the projects.
Helping the school students to contribute to the project and reviewing their work. (**Link**)

Kanpur Python & PyData Meetup · Organizer   June 2017 to Current
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. (**Link**)