ASHWIN RACHHA

https://ashwinrachha.github.io/blogpost/

To conduct thorough research in the field of natural language processing and computer vision and deliver solutions to make the world better.

Education

Pune Institute Of Computer Technology Pune, India
BE in Computer Engineering GPA:8.67/10 *July. 2016 – May 2020*

Publications

arxiv.org Dec.2020
- Detecting Insincere Questions from Text: A Transfer Learning Approach.

International Research Journal of Engineering and Technology (IRJET) Oct.2020
- COVID-19 Chest X-RAY detection : A transfer learning approach

Experience

Machine Learning Intern Dec 2018 – Feb 2019
MindBowser Infosolutions Pvt Ltd.
- Developed the application of Facial Expression Recognition which classifies emotions from video inputs using deep learning. Also integrated the application with a mongo database to generate a summary of emotions generated in an interaction.

Projects

COVID-19 Chest X-RAY Detection *Python, PyTorch*
- Used transfer learning to distinguish covid positive xray images from bacterial pneumonia and normal radiographs

Detecting Insincere Questions from Text *Python, Keras*
- Created a project which classified toxic insincere questions by fine tuning various Transformers variants viz. BERT, ROBERTA, DISTILBERT, ALBERT

Abstractive Text Summarization *Python, Tensorflow, Keras, Flask*
- Created an abstractive text summarizer to produce an abridged version of text

Facial Expression Recognition *Python, Tensorflow, Keras, OpenCV*
- Aimed to detect emotions from video input for better Customer Relationship Management using deep learning.

Drowsiness Detection *Python, OpenCV*
- An IoT based project based upon detection of drivers for drowsiness using computer vision and machine learning.

Text Auto-Complete *Python, Numpy, Tensorflow*
- Designed a probabilistic n-gram model that suggest words for auto-complete.

Certifications

- Deep learning : 5 course specialization offered by deeplearning.ai at Coursera.
- Natural Language Processing : 4 course specialization offered by deeplearning.ai at Coursera.
- Tensorflow in practice : 4 course specialization offered by deeplearning.ai at Coursera.
- Python : 5 course specialization offered by University of Michigan at Coursera.

Technical Skills

Languages: Python,Java, C/C++, SQL (MySQL), JavaScript, HTML/CSS, R,php
Libraries: Pytorch, Tensorflow, fast ai, Keras, pandas, NumPy, Matplotlib , Spacy, Nltk , OpenCV, Flask, Django.