SAMTA KAMBOJ

Deep Learning

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⎔ https://github.com/as2092

SKILLS & KNOWLEDGE

- C, Python, Sql
- Pytorch, Tensorflow, Keras
- Computer Vision, Deep Learning, Machine Learning

EDUCATION

Mtech-IT(Robotics) CGPA : 8.7
Indian Institute of Information Technology

📅 July 2017 – July 2019   ⚲ Allahabad

Btech(ECE)
YMCAUST

📅 July 2009 – May 2013   ⚲ Faridabad

EXPERIENCE

Teaching Assistant under Prof. GC Nandi
IIIT Allahabad

📅 August 2018 – present   ⚲ Allahabad,India

- Involved in taking tutorials and assignment evaluations for "Soft-Computing - Deep Learning" and "Python programming" Course for Btech students.

Programmer Analyst
CTS (Cognizant Technology Solutions Ltd.)

📅 May 2014 – February 2015   ⚲ Coimbatore,India

- Worked as a JAVA developer in a team of 5 for making functionality changes to the application as per business requirements.
- Actively involved in Database designing (MySql), UI (HTML and CSS), JAVA coding

RESEARCH

Detecting Adversarial Attacks on Deep Learning Networks for Image Classification and Speech Recognition

- Analysed various Adversarial attacks and defenses for deep learning Image Classification Networks
- Developed a detection strategy using information theory based approach which gives an accuracy of about 98% on MNIST and fashion-MNIST dataset. Research in progress for Audio to text datasets.
- Implemented using Python and Pytorch

PROJECTS

Breaking Image Captchas using CNN

- Developed CNN that could read the alphabets and digits in image captchas.
- Implemented using tensorflow and keras.

Sentiment Analysis

- Used simple as well as **bi-directional LSTM** techniques for Sentiment Analysis on IMDB Movie review dataset.
- Implemented using python

Image Classifier using Google Images

- Created dataset for 5 different Yoga poses using google images. Trained the classifier using transfer learning. Implemented in python using fastai-v1 library.

Face Recognition using PCA/LDA

- Implemented PCA(Principal Component Analysis) and LDA(Linear Discriminant Analysis) for face Recognition as a "Soft Computing" course work.

EXTRACURRICULAR

- National Level Table-Tennis Player
- Won gold medal in Inter College Table-Tennis Competitions