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## C S KARTHIK

### ACADEMIC DETAILS

Year	Degree / Exam	Institute	GPA/Marks(%)
2017-present	B.Tech in Electronics and Communication Engineering	Thapar Institute of Engineering and Technology, Patiala	8.30
2017	Class XII, CBSE	Somerville School, Noida	88.4
2015	Class X, CBSE	Somerville School, Noida	8.6

### SCHOLASTIC ACHIEVEMENTS

- Secured 84% in the course of Programming Data Structures and Algorithms using Python and in top 5% toppers list among 4745 candidates.
- School Bronze medal in National Science and Talent Search Examination.

### CERTIFICATIONS

- Git and Github-Udemy
- Data Structures and Algorithms using Python-NPTEL
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning - deeplearning.ai(coursera)
- Convolutional Neural Networks in TensorFlow -deeplearning.ai(coursera)

### SKILLS

Languages : Python,C++,HTML,CSS,C  
OS : Windows and Linux  
Libraries : PyTorch,Tensorflow,MATLAB,matplotlib,numpy,scikit-learn  
Tools : Spyder,Jupyter Notebook,Atom  
Version Control : Git  
Others : Operating System, Data Structures

### PROJECTS

- Image Super Resolution** (Research Project) (**OnGoing**)
  - Used Residual Dense Network on Scene Text Detection Dataset
  - Implementation Using SRGAN for better Prediction Results than Bi-CUBIC
- One Shot Face Recognition using **Siamese Neural Network**  
**Github Link** : <https://github.com/badman7/One-Shot-Face-Recognition-using-Siamese-Network>
  - Used AT&T face dataset with contrastive loss function based on (<http://yann.lecun.com/exdb/publis/pdf/hadsell-chopra-lecun-06.pdf>)
- Chest XRAY image generator using **Vanilla Variational Autoencoder**  
**Github Link** : <https://github.com/badman7/Pneumonia-image-generator-from-chest-XRAY-images-using-vanilla-VAE>
  - Imported Chest XRAY images with two classes where one being NORMAL and OTHER with PNEUMONIA and generated Chest XRAY images from random values.
- Fake Face Generator using **DCGAN**  
**Github Link** : <https://github.com/badman7/DC-GAN>
  - Extracted CelebA dataset and implemented DCGAN to generate fake faces using generator and discriminator networks

### EXTRA CURRICULAR ACTIVITIES

- Took workshops for 1<sup>st</sup> year and 2<sup>nd</sup> year students as a part of IETE Students Forum(electronics club) and conducted events.
- Conducted the leading technical fest of our college ELEMENTOS.

## POSITIONS OF RESPONSIBILITY

- **Position : Technical Head(2019-Present)**
  - **Organization** : Institute of Electronics and Telecommunication Engineers,Students forum
  - **Place** : Thapar Institute of Engineering and Technology,Patiala
  - **Role** : Managing all the technical events and workshops of the society.
- **Position : Overall Technical coordinator(Feb 2019)**
  - **Organization** : Elementos(Electronics Technical Fest)
  - **Place** : Thapar Institute of Engineering and Technology,Patiala
  - **Role** : Managing all the technical events and workshops of the society.
- **Position : Mentor(2018-2019)**
  - **Organization** : Institute of Electronics and Telecommunication Engineers,Students forum
  - **Place** : Thapar Institute of Engineering and Technology,Patiala
  - **Role** : Conducting workshops of the college for the year .