

SIDDHARTH SHRIVASTAVA

PhD Student from IIT Delhi

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WORK EXPERIENCE

Research Intern

IIT Bombay

📅 May 2019 – July 2019

📍 Mumbai, Maharashtra, India

- Worked on Topic "**Multi organ nuclei segmentation using deep adversarial training**" under the supervision of Associate Professor Dr. Amit Sethi at MeDAL, IIT Bombay.

Project Trainee

Semi-Conductor Laboratory , Mohali (Department of Space)

📅 June 2018 – July 2018

📍 Mohali, Punjab, India

- Experimented on the topic "**Study and Development of Redundant Contact Anneal in RTP Tool**" under the guidance of Scientist E Mr.Rajeev Rajan Kumar, SCL.

PROJECTS

Control or Autism - Classification using Convolutional Neural Networks on Functional MRI

📅 March 2020 – May 2020

- Novel CNN Architecture || State-of-the-art (SOTA) results in Accuracy, Precision & Specificity using ABIDE RS-fMRI Data.

Corpus Callosum Instance Segmentation Using Parcellation

📅 Oct 2019 – Dec 2019

- Novel CNN Architecture || Ground Truth Generated on the Fly using Parcellation algorithm with Multi-Class Dice Score of 0.932.

Delta U-Net

📅 Dec 2019

- Novel CNN Architecture || Outperformed CE-Net in Corpus Callosum Image Segmentation with a Dice Score of 0.9455.

Comparative Study of Deep Learning Models for Segmentation of Corpus Callosum

📅 Aug 2019 – Nov 2019

- Compared CE-Net, MultiResUNet & Unet++ || CE-Net Architecture gave the best results with a Dice Score of 0.9311.

Multi-Organ Nuclei Segmentation

📅 May 2019 – Jul 2019

- Deployed GANs for segmenting histopathology nuclei images || Cycle GANs for Image-Mask pairs & Conditional GANs for Segmentation.

Automatic Bus Ramp

📅 Oct 2018

- Prototype for the aid of physically handicapped people || Rack & pinion mechanism using Arduino, Ultrasonic sensor & servo motor.

EDUCATION

BTech, Electronics & Telecommunication

National Institute of Technology Raipur

📅 August 2016 – June 2020

CGPA : 9.52

PhD, School of IT

Indian Institute of Technology Delhi

📅 December 2020 – current

SKILLS

Python

Pytorch

OpenCV

Matlab

GCP

AWS

Paperspace

git

ACHIEVEMENTS

- Winner at Vigyaan, a part of Technical fest Aavartan'18 at NIT Raipur with a cash prize worth Rs 5000
- As a part of project [V.I.S.I.O.N](#), team consisting of 5 members was awarded a seed grant of worth Rs. 25000 at Innovation Expo'18, NIT Raipur.

RESPONSIBILITY

Atal Innovation Mission

📅 Oct 2017 - Dec 2018

Designed projects and organised workshops for higher secondary school students.

COURSES

- [Machine Learning](#) - Coursera
- [Deep Learning Specialisation](#) - Coursera
- Convolutional Neural Networks for Visual Recognition (CS231n) - Stanford
- [Python for Data Science and Machine Learning Bootcamp](#) - Udemy

PUBLICATION

- [11th IEEE ICCNT 2020](#) Control or Autism - Classification using Convolutional Neural Networks on Functional MRI
- [4th IEEE ICCMC 2020](#) Comparative Study of Deep Learning Models for Segmentation of Corpus Callosum