Aditya Kumar Pal

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EDUCATION

Master of Technology **2019 - Present**
CDS, Indian Institute of Science, Bangalore

Bachelor of Technology **2015 - 2019**
Faculty of Engineering and Technology, Gurukula Kangri University Haridwar , **8.94 CGPA**

CBSE, Class XIIth **2013 - 2014**
Kendriya Vidyalaya Gomti Nagar Lucknow , **89%**

CBSE, Class Xth **2011 - 2012**
Kendriya Vidyalaya Gomti Nagar Lucknow , **10 CGPA**

TECHNICAL SKILLS

Languages	C++, Python, C, MATLAB
DL Frameworks	PyTorch, Keras
Parallel Frameworks	OpenMP, MPI, CUDA
Tools	LaTeX, Dev C++, Colab, WEKA, Orange, Spyder
Cloud Technologies	Google Cloud, AWS
Main Cousre	DS:265 Deep Learning for Computer Vision
	DS:294 Data Analysis and Visualization
	DS:295 Parallel Programming
	E1:222 Stochastic Models and Applications
	E9:205 Machine Learning for Signal Processing

PROJECTS

Multi-Object,Multi-Defect Image Level Anomaly Detection. **Jan 2020 - Jul 2020**
This project explores autoencoder and GAN based architecture for image inpainting technique for anomaly detection and localization tasks on MVTec Anomaly Detection dataset (real-world multi object with multiple defects dataset), with modified reconstruction loss and complementary masking techniuqe for inference.

Graph Structured Data Visualization. **Jan 2020 - Jul 2020**
In this project I've explored Graph Convolution Network based encoder-decoder based model to generate graph embedding, for visualization, with modified loss function to incorporate node as well as feature information, outperforms tSNE and tsNET.

Hybrid Kmeans++ using CUDA and OpenMP. **Jan 2020 - Jul 2020**
This a team based course project under DS 295 Parallel Programming, We used massive parallel architecture of CUDA for complex computation and OpenMP for simple computation of Kmeans clustering algorithm with Kmeans++ initialization.

Parallel Contact Tracing using OpenMP. **Jan 2020 - Jul 2020**
This is a parallel implementation of contact tracing algorithm similar to that of COVID-19 contact tracing, using C++ and OpenMP framework, a type of mini-project under DS-295 Parallel Programming course.

Music Genre Classification. **Aug 2019 - Dec 2019**
In this project I have implemented deep neural network and different ensembling techniques on neural network to improvise the classification performance of the classifier. Like average ensembling model, stack ensembling model.

Skin Cancer Detection using Transfer Learning. **Jan 2019 - Jun 2019**
This team based B.Tech major project involves "transfer learning " approach to build a deep learning model to visually diagnose melanoma, the deadliest form of skin cancer.

KEY ACCOMPLISHMENTS

Secured 99.47 percentile in GATE 2019 (CSE).

Secured 88% marks and among TOP 1% in "Programming, Data Structures and Algorithms Using C " in NPTEL (by IIT Madras April 2018 exam).

Faculty Topper in B.Tech 1st year. (9.39 SGPA).

Secured 1st position in Poster Competition organized by Computer Science Haridwar Chapter (September 2018).

NSS B Certificate holder.

POSITION OF RESPONSIBILITY

Represent Visual Computing Lab in IISc Open Day.

Member of Technical Team (Backend Developer) at Annual National Tech Fest of GKV –Jnanagni2018.

Art of Living Volunteer, Haridwar.