KELAM GOUTAM

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OBJECTIVE

I am an eager learner who wants to be regarded as a consistent performer looking for value addition and contributing to the growth of an organization.

EDUCATION

M.Tech Computer Science   June 2017 - April 2019
Sri Sathya Sai Institute of Higher Learning, Puttaparthi, Andhra Pradesh.
CGPA: 8.4/10.00 (Until 3rd semester)

M.Sc. Mathematics with specialization in Computer science   June 2015 - April 2017
Sri Sathya Sai Institute of Higher Learning, Puttaparthi, Andhra Pradesh.
CGPA: 7.6/10.00

B.Sc.(Hons.) Mathematics   June 2012 - April 2015
Sri Sathya Sai Institute of Higher Learning, Puttaparthi, Andhra Pradesh.
CGPA: 6.9/10.00

Class XII, CBSE   2012
Kendriya Vidhyalaya, Chakradharpur, Jharkhand.
81.00%

Class X, ICSE   2010
South Eastern Railway Higher Secondary School, Chakradharpur, Jharkhand.
72.57%

TECHNICAL SKILLS

Programming Languages	C++, C, Python and MATLAB
Frameworks	PyTorch, OpenCV

PUBLICATIONS

LayerOut: Freezing layers in Deep Neural Networks in International Conference on Machine Learning, Image Processing, Network Security and Data Sciences-2019 (MIND), NIT Kurukshetra, INDIA.

· The layers of the architectures are stochastically frozen to achieve regularization.
· Optimized the training of neural networks by reducing up to 70% of computation per epoch.
· Achieved up to 2% higher accuracy than baseline networks such as VGG-16 and ResNet on standard datasets.

PROJECTS

Image Saliency Detection using Deep Learning Paradigm   June 2018 - March 2019
M.Tech. Graduate Project

· Saliency is a preprocessing technique for the computer vision tasks like image segmentation, object detection, etc.
· Proposed an architecture which accounts for high level and low level features for better prediction of saliency maps.
· Proposed architecture performs better than 12 of the state-of-the-art results on F-Measure and Mean Absolute Error metrics.

Captcha Cracking using Machine Learning
Group Project   January 2018

· Main aim of the project was to show captchas can be cracked easily and sophisticated captchas are needed.
· Captchas with noise and translated alpha-numeric characters were generated.
· Achieved 98% accuracy in predicting captchas using CNNs.

Image Enhancement using Discrete Wavelet Techniques
M.Sc. Graduate Dissertation   June 2016 - March 2017

· Transformed lower resolution(LR) images to higher resolution(HR) images using wavelets by interpolation.
· Useful in converting LR images from satellites to HR images.
· Proposed usage of drones with LR cameras and converting LR images to HR images for better information.

CONFERENCES AND WORKSHOPS

MIND: International Conference on Machine Learning, Image Processing, Network Security and Data Sciences   March 2019
National Institute of Technology, Kurukshetra, India.

Workshop on Deep Learning: With Hands On   December 2017
Sri Sathya Sai Institute of Higher Learning.

Summer Workshop On Indian Culture and Spirituality   July 2012-2018
Sri Sathya Sai Institute of Higher Learning.

ACHIEVEMENTS AND EXTRA-CURRICULAR ACTIVITIES

Academics
· Won the ***Best Paper Award*** in MIND-2019 conference.
· Topped the class in 3rd semester of M.Tech
· Secured 4th position in West-Singhbhum district in XII board exams

Self-Reliance Group
· Volunteered in Institute's Hostel Maintenance Department.

Sports and Cultural
· Part of Institute level House Teams for Cricket, Volleyball and Drama.
· Won many medals in Shot put, Discus throw and Javelin throw.

Communication Skills
· Stage manager and coordinator for dramas, orchestra's, cultural events.
· Public speaker.

Organisational / managerial skills
· Member of the organizing committee of Grama-seva (village service) for adopted villages, through home-base (headquarters) for 2 years.
· Served as an on-field volunteer in Grama-seva for 3 years.
· Coordinator for Institute Float for Annual Sports and Culture Meet for four consecutive years 2016-2019 and lead a group of 40 people for over a period of 3 weeks.
· Headed the Audio-Visual team for various Conferences and Workshops conducted at Department of Mathematics and Computer Science, SSSIHL.