Rishav



rishkumar2345@gmail.com



+91 9205229294



rish-av.github.io

Education -

B.E.(Hons.) Computer Science | BITS Pilani | 2020

Senior Secondary (Class XII) Chinmaya Vidyalaya Bokaro| 2016

Skills —

Languages: Python,C++,C,Java Frameworks : Tensorflow, PyTorch

Extra-Curricular —

Senior Member @ BITS-ACM
- Senior member at student chapter of ACM, BITS Pilani, Involved in Machine Learning Special Interest Group

Project Leader @ GyanBodh Harinagar, Nirmaan Organisation - Introduced Activity based learning amongst the kids in Harinagar community & taught rural school kids

Blogger @ Quora

- Active writer on Quora, mostly write about topics related to higher education and AI

Experience

May-Jul'20 Computer Vision Intern Chloropy Tech. Singapore Working on unsupervised learning algorithms for monocular depth estimation from drone images.

June-Dec'19 Bachelor Thesis

Worked on Deep Learning for Scene Flow Estimation in Autonomous
Vehicles under Prof. Dr. Didier Stricker for my bachelor thesis, parts
from the work were accepted at ICPR-2021 & IROS-2020

Apr-Aug'18 ML Engineer Pixxel, Bengaluru Worked on deep learning algorithms for cleaning and useful band extraction from hyperspectral images. Implemented HSID-CNN for the same.

JAn-May'19 Research Assistant CEERI Pilani
Worked on two projects, semantic segmentation of power-lines in
aerial images & machine learning algorithms for structural health
monitoring.

Publications

[1] Rishav*, Ramy Battrawy*, Et al. "DeepLiDARFlow: A Deep Learning Architecture For Scene Flow Estimation Using Monocular Camera and Sparse LiDAR at IEEE/RSJ-IROS 2020, Las Vegas, NV, US

[2] Rishav*, René Schuster*, Et al. "ResFPN: Residual Skip Connections in Multi-Resolution Feature Pyramid Networks for Accurate Dense Pixel Matching at IEEE-ICPR 2020, Milan, Itlay

Academic Projects

Jan-May'20 Visual Commonsense Reasoning BITS Pilani
Worked on deep learning algorithms for visual commonsense reasoning. Applied a new attention mechanism.

Jan-May'19 Compiler Construction

Constructed a compiler for a given language specification in C language, this included the development of lexer, parser, semanticanalyzer, code-generator

May'20 Active Learning BITS Pilani
Implemented active learning algorithms for digit recognition, tested various techniques like Query by committee & uncertainty sampling

Achievements

May'16 JEE Mains Govt. of India Obtained an all India percentile of 99.90 out of 1.2 million candidates.

May'14 National Talent Search Exam Govt. of India One amongst 4,000 people selected for the scholarship out of 0.5 million candidates.

May'16 BITSAT 2016 BITS Pilani Obtained a score of 390/450 in BITSAT, test for admission to BITS Pilani.

Coursework

Comp. Sc Data Structures and Algorithms, Design and Analysis of Algorithms, Operating Systems, Database Management, Neural Networks and Fuzzy Logic, Machine Learning, Compiler Construction, Object Oriented Programming, Pattern Recognition

Mathematics Linear Algebra, Probability and Statistics, Differential Equations, Integral Calculus, Graph and Networks, Discrete Mathematics