ANKITA RAJ

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EDUCATION

Indian Institute of Technology Delhi, New Delhi, India

December 2018 - Present

Ph.D. in Computer Science and Engineering

Advised by Dr. Chetan Arora

CGPA: 8.46/10

Indraprastha Institute of Information Technology Delhi, India

July 2014 - June 2016

M.Tech in Electronics and Communication Engineering

CGPA: 9.25/10

North Eastern Regional Institute of Science and Technology, India

July 2010 - May 2014

B. Tech in Electronics and Communication Engineering

CGPA: 4.96/5

EXPERIENCE

Indian Institute of Technology Delhi

Jan 2019 - Present

Teaching Assistant

New Delhi, India

Computer Vision, Machine Learning, Digital Image Processing, Introduction to Computer Science, Data Structures and Algorithms, Advanced Functional Brain Imaging.

Tata Consultancy Services

Aug 2016 - Dec 2018

Researcher, Robotics Lab

Noida, India

Worked on computer vision problems like automatic robot grasp detection, object detection using RGB and Depth data, object recognition using incremental learning, with a focus on real-world deployment. Developed hands-on experience with deep learning frameworks and popular architectures.

Indraprastha Institute of Information Technology Delhi

Aug 2014 - May 2016

Teaching Assistant

New Delhi, India

Probability and Statistics, Optimization, Signals and Systems, Maths I (Linear Algebra), Maths II (Differential Equations).

Indian Institute of Technology Guwahati

Jun 2013 - Jul 2013

Research Intern (under Dr. S.R.M. Prasanna)

Guwahati, India

Developed an algorithm for gender identification through speech.

PUBLICATIONS

Identifying Physically Realizable Triggers for Backdoored Face Recognition Networks Ankita Raj, Ambar Pal, Chetan Arora.

IEEE International Conference on Image Processing (ICIP), 2021. [link]

Weighted-A* Based Energy Efficient Resource Allocation in G.Fast

Ankita Raj, Pravesh Biyani.

IEEE Transactions on Communications, Nov. 2019. [link]

HiFI: A Hierarchical Framework for Incremental Learning using Deep Feature Representation

Ankita Raj, Anima Majumder, Swagat Kumar.

IEEE International Conference on Robot and Human Interactive Communication (RO-MAN), 2019. [link]

A* algorithm based power minimization for discontinuous operations in G.fast Ankita Raj, Pravesh Biyani, Sandip Aine.

IEEE International Conference on Communications (ICC), Paris, 2017, [link]

Analysis and Synthesis Prior Greedy Algorithms for Non-linear Sparse Recovery Kavya Gupta, Ankita Raj, Angshul Majumdar.

Data Compression Conference (DCC). IEEE, 2016. [link]

AWARDS AND ACHIEVEMENTS

Best M.Tech Thesis in Communication and Signal Processing, IIIT Delhi	2016
Gold Medal for securing first position, Degree Module, NERIST	2014
Gold Medal for securing first position, Diploma Module, NERIST	2012
Gold Medal for securing first position, Base Module, NERIST	2010
Ninth position in High School Leaving Certificate Examination, Assam	2008

TECHNICAL STRENGTHS

Programming Languages	F
Tools and Technologies	Γ

Python, C++, Java

Tensorflow, PyTorch, Keras, Caffe, MATLAB