

Nishant Rai

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EDUCATION

STANFORD UNIVERSITY

MS - COMPUTER SCIENCE

Specialization in A.I.

Sep '19 - Current

GPA: 4.0 / 4.0

IIT KANPUR

BTECH - COMPUTER SCIENCE

Ranked 1st in the Department

Apr '17 | Kanpur, India

GPA: 9.9 / 10.0

LINKS

LinkedIn: [nishantrai](#)

Github: [nishantrai18](#)

Google Scholar: [NishantRai](#)

PROJECTS

MACHINE LEARNING

Sarcasm Detection in Social Media

Instance Recommender System

Reinforcement Learning for Games

Sentiment Analysis of Social Media

GAN based Image Up-sampling

Real-time Vehicle Recognition

Captcha Decoder

Visual Question Answering

Othello, Battleship AI Bot

Image Caption Generation

OTHERS

Distributed Fault-tolerant Pipeline

End-to-End ADA Compiler

NachOS Operating System

Multi-Sense Word Representation

Course Management Database

Geometric Data Structures

POSITIONS

TEACHING

CS231N: CNNs for Recognition

CS145: Intro to Databases

ESC101: Intro to Programming

MISCELLANEOUS

Core Team Academics, IIT Kanpur

Programming Club, IIT Kanpur

SKILLS

C++ • Python • Scala • C • GoLang

PyTorch • TensorFlow • OpenCV

WORK EXPERIENCE

NURO

ML Perception Intern | Jun '20 – Sep '20

Worked with the [Perception team](#) boosting [Obstacle Detection](#) performance

STANFORD VISION LAB

Research Assistant | Sep '19 – Current

Working with [Dr. Juan Carlos](#), [Dr. Fei Fei Li](#) on [multi-view video perception](#)

FYUSION

Computer Vision Intern | Jun '19 – Sep '19

Designed Deep Neural Networks predicting [3D object structure](#) from 2D images [without any labelled data](#) - powers Fyusion's [perception stack](#).

RUBRIK

Software Developer | Jul '17 - Jun '19

- Worked on the central [data management module](#) powering Rubrik
- Parallelized the [cloud upload framework](#) resulting in a 3-4x speedup
- Designed and built Rubrik's first [globally distributed SLA framework](#)

TWO ROADS TRADING

ML Trading Intern | May '17 – Jul '17

Designed and evaluated [ML trading strategies](#) based on stock price gaps

RESEARCH

C.A.R.I.S. LAB

Research Intern | University of British Columbia

Developed approaches for [human-robot interaction](#) and [point cloud alignment](#)

XEROX RESEARCH

Research Intern | Bangalore, India

Designed ML algorithms for [multi-view learning](#). [Oral at ICPR '16](#)

I.N.R.I.A.

Research Intern | Rocquencourt, France

Researched algorithms for [shortest paths](#) in massive road networks. Designed metrics for [analysis of social networks](#). Published in the [Journal - JST '16](#).

HIGHLIGHTED PROJECTS

Multi-View Learning for Action Classification

In Progress for CVPR

Self-supervised Learning for Video Understanding

WACV**

Unsupervised Inference of 3D Geometry from Images

WACV**

Deep Learning for Human Action Recognition in Videos

CVPR

Personality Trait Analysis through Videos

ICPR

Knowledge Graph Based Recommender System

Use KG to Recommend

Seq2Seq Machine Translation

Language Translation

AutoML: Automated Machine Learning

Automate ML for ML

AWARDS

Gold Medal for **best academic performance** in graduating CS class

2017

Academic Excellence Award for **outstanding academic performance**

'13, '14, '15

Scholarship for **outstanding all-round achievement** in the batch

2016

Gold Medal for outstanding performance at **Indian Physics Olympiad**

2013

Gold Medal for outstanding performance at **Indian Mathematics Olympiad**

2013

PUBLICATIONS

AdaScan: Adaptive Deep CNNs for Human Action Recognition

CVPR

Bi-Modal Regression for Apparent Trait Analysis

ICPR

Partial Multi-View Clustering Using GNMF

ICPR