

Anirudh Anil Ojha

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EDUCATION

B.TECH, COMPUTER SCIENCE

IIT KANPUR

Expected May 2021 | Kanpur, India

CUM. GPA: 9.9/10.0

AISSCE

DELHI PUBLIC SCHOOL, RANCHI

Grad. May 2017 | Ranchi, India

PERCENTAGE: 97%

AISSE

SURENDRANATH CENTENARY
SCHOOL

Grad. May 2015 | Ranchi, India

CUM. GPA: 10.0/10.0

ACHIEVEMENTS

- Ranked 173 in **ACM ICPC Amritapuri Regionals 2018**
- Ranked 239 in **ACM ICPC Online round 2018**
- Secured **AIR 92** among 1.5 million candidates in JEE Main, 2017
- Secured **AIR 172** among 20,000 candidates in JEE Advanced, 2017
- Received the **Academic Excellence Award** by IIT Kanpur for **two consecutive years**
- Qualified **NTSE** (2015) and **KVPY** (2016)
- Secured position in **National 1%** in NSEP and NSEC 2016-17
- **1st position in India**, UPU International Letter Writing Competition; **represented India internationally**

COURSEWORK

Visual Recognition
Data Structures and Algorithms
Probability for Computer Science*
Introduction to Machine Learning †
Operating Systems †
Computer Organisation
Discrete Mathematics
Multivariate Calculus*
Introduction to Programming
Linear Algebra
(* - A* for Outstanding performance)
(† - ongoing)

EXPERIENCE

MAX PLANCK INSTITUTE FOR SOFTWARE SYSTEMS | VISITING

RESEARCH SCHOLAR UNDER PROF. PAUL FRANCIS

May 2019 – July 2019 | Kaiserslautern, Germany

- Designed tasks to measure analytic utility of anonymised datasets
- Performed visualizations for feature engineering and ran multiple machine learning based algorithms on large personal datasets
- Computed metrics to compare results of analytic tasks on raw data with anonymised data and hence find analytic utility

PROJECTS

NEWSSENSE Mar 2018 - May 2018

Microsoft code.fun.do AI with Machine Reading Challenge

- Scraped news from online archives and performed sentiment analysis to predict relations between countries and popularity of leaders
- Used NLP libraries like NLTK, Spacy and Stanford CoreNLP for named entity recognition and sentiment analysis, and **D3.js** for interactive visualisations
- **Chosen the best team on campus** and selected to represent IIT Kanpur at **Microsoft Hyderabad** to showcase our project at AXLE '18

VISUAL RECOGNITION Jan 2018 - Apr 2018

Course assignments and project under Prof. Vinay P. Namboodiri

- Performed instance recognition using **K-means clustering** on SIFT descriptors of images to make classes and an **SVM** to classify test instances
- Used regular and bilinear **CNNs** to perform object classification
- Implemented an SSD-like method in **PyTorch** for object detection
- Used **domain adaption** to fine-tune a model to perform object tracking on IITK surveillance dataset and classical trackers to improve speed

ENGINE FOR MODELLING SOCIAL DYNAMICS Jul 2018 – Dec 2018

Project under Prof. Nisheeth Srivastava, IIT Kanpur

- Developed an engine using **Paper.js** to simulate social and crowd behaviour
- Designed and deployed multiple animations on a Django backend with PostgreSQL for storage of data entries
- Conducted experiments on over 50 people to study the effect of motion-based features on their inference of emotion in the animation

TECHNICAL SKILLS

PROGRAMMING

• Python • C/C++ • Haskell • R • Bash • Javascript

UTILITIES/LIBRARIES

• PyTorch • Keras • D3.js • Natural Language Toolkit • Django • Git • \LaTeX

POSITIONS OF RESPONSIBILITY

- **Coordinator, English Literary Society**, IIT Kanpur, 2019-20. Leading a group of 20 students to conduct literary activities on campus
- **Academic Mentor, Counseling Service**, conducted remedial classes for academically weak students for linear algebra and multivariate calculus
- **Manager, Media and Publicity**, Antaragni 2019
- **Manager, English Literary Events**, Antaragni 2018