

Anurag Singh

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EDUCATION

Netaji Subhas Institute of Technology, University of Delhi

BEng.(Honours) in Information Technology

August 2014- May 2018

First Class with Distinction (GPA 8.72/10)

RESEARCH EXPERIENCE

Indian Institute of Science

Research Fellow Advisor: Prof. Soma Biswas

Bangalore

July 2019- Present

- **Imbalanced data classification:** Formulated as retrieval problem. Improved on state of the art by using labels as semantic attributes. Analyzing effect of self supervision on mitigating effect of imbalance.
- **Sketch-based image retrieval:** Problems in class and domain imbalance, zero-shot and generalized zero-shot.

IIIT Delhi

Research Associate Advisor: Prof. AV Subramanyam

New Delhi

Aug 2017 - March 2018

- Design of novel models and metrics for representative summarization. [\[poster\]](#) [\[ppt\]](#)

Jamia Milia Islamia

Research Intern Advisor: Prof Mohommad Sharif

New Delhi

Nov 2016-Jan2017

- Inflow prediction and anomaly detection for optimal reservoir operation. [\[Codes\]](#) [\[Report\]](#)

PUBLICATIONS

1. TDutta*, **ASingh***, SBiswas *Adaptive Margin Diversity Regularizer for handling Data Imbalance in Zero-Shot SBIR*. Submitted ECCV, 2020
2. TDutta, **ASingh**, SBiswas *StyleGuide: Zero-Shot Sketch-based Image Retrieval Using Style-Guided Image Generation*. Accepted at IEEE Transactions on Multimedia, 2020 [\[pdf\]](#)
3. **ASingh**, LVirman, AV Subramanyam. *Image Corpus Representative Summarization*. IEEE International Conference on Multimedia Big Data 2019, NUS Singapore [\[pdf\]](#) (*Honourable Mention Award*)

INDUSTRY EXPERIENCE

Royal Bank of Scotland

Software Engineer

Gurgaon

June 2018-July 2019

- Lead the effort for access management via real time open set face recognition. Involved in review of vendor solutions by IBM, Wipro and IDEMIA. Designed architecture to perform recognition with low latency on edge. Built a proof of concept to lead in house development of minimum viable product. [\[Code\]](#)

Software Development Intern

Summer 2017

- Built a utility to replay lost brokerage messages. Considering performance, offered a full-time position.

HONOURS AND AWARDS

- **Merit Scholarship** covering 50 % of tuition at UChicago MS Fall 2019 (**28,000 \$**) (Declined)
- **Honorable Mention Award** and **Best Paper Nomination**. In top 4 papers of main track. (**Pub #3**)
- **Annual Merit Scholarship for academic performance:** Placed among top 25% students (2014-2018).