Ruchit Rawal

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EDUCATION

Netaji Subhas Institute of Technology, University of Delhi
B.E. in Electronics and Communication Engineering   *Aug'17-May'21*
CGPA: 7.82/10   *(Expected)*

EXPERIENCE

1. **Research Intern**, Goethe University   *Mar'20 - Present*
   Adviser: Prof. Gemma Roig   *Frankfurt (Remote)*
   - Investigating functions of different brain regions using Deep Neural Networks as computational models.
   - Particularly, aiming to disentangle the effects of various components in the deep learning stack (Dataset, Architecture, Task) on the ability to effectively explain brain responses.

2. **Research Project Intern**, Indian Institute of Science (IISc) *Sep'19-May'20*
   Mentor: Prabhu Pradhan   *Bangalore (Remote)*
   - Explored modular strategies for curbing extreme class-imbalance in a combination setting.
   - Implemented deep generative models for synthetic data augmentation of multi-spectral images.

3. **Data Science Intern**, AlgoAnalytics   *May'19-Jul'19*
   Supervisor: Adwait Bhave   *Pune, India*
   - Built an end-to-end pipeline for automated risk detection and mitigation in supply chains.
   - Deployed a dashboard built on Elasticsearch and Kibana for real-time data analysis.

PUBLICATIONS

1. **Rendezvous between Robustness and Dataset Bias: An empirical study**
   Prabhu Pradhan*, **Ruchit Rawal***, Gopi Kishan
   NeurIPS pre-registeration Workshop, 2020. Paper

2. **Generalizing across the (in)visible spectrum** (Oral)
   Ruchit Rawal*, Prabhu Pradhan*
   ICML Workshop on Extreme Classification, 2020. Paper

3. **Climate Adaptation: Reliably Predicting from Imbalanced Satellite Data** (Oral)
   Ruchit Rawal*, Prabhu Pradhan*
   CVPR Workshop on Agriculture-Vision, 2020. Paper

SKILLS

Languages: Python, C++, C, Javascript, MATLAB
Framework and Tools: PyTorch, Tensorflow, Keras, Open-CV, LaTeX

AWARDS

- One among the **Top-20** participants at Summer School on Computer Vision at IIIT-Hyderabad from a pool of over 250 PhDs, graduates and undergraduates.
- Semi-Finalist at the Flipkart GRiD 2.0 Hackathon, which saw over 10,000 submissions from pan-India.

RELEVANT COURSEWORK

Computer Programming, Data Structures, Image Processing, Computer Networks, Operating Systems, Big Data and Analytics, Information Theory, Probability and Communication Theory, Multivariate Calculus, Linear Algebra, Switching Theory & Automata, Digital Signal Processing