Rijul Ganguly

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EDUCATION

BITS PILANI
BE in Computer Science
August 2017-Present | Goa, India
Cum. GPA: 8.55 / 10

THE FUTURE FOUNDATION SCHOOL
Grad. May 2017| Kolkata, India

LINKS

Github:// Rijul1999
LinkedIn:// Rijul Ganguly
Website:// rijul1999.github.io

SKILLS

PROGRAMMING
Over 5000 lines:
Java • Python • C • C++
Over 1000 lines:
Matlab • Verilog • HTML • Assembly • MySQL • Shell
Basic:
Unity

RESEARCH INTERESTS

1. **COMPUTER VISION**
2. **NATURAL LANGUAGE PROCESSING**
3. **REINFORCEMENT LEARNING**
4. **ROBOTICS**

EXPERIENCE

COMPUTER PROGRAMMING AND DIGITAL DESIGN COURSES | Teaching Assistant
Jan 2019 - May 2019

IAS LAB, TU DARMSTADT | Remote Collaborator
May 2020 - Current

- I am currently working as a remote collaborator with Julen Urain.
- My project here mainly involves segmentation of human actions, with a final aim of mimicking these actions in robots.

VARIABLE ENERGY CYCLOTRON CENTRE | Research Intern
May 2019 – July 2019
Report Link

- Worked with the robotics team at VECC. My task was to create a land-coverage algorithm for an e-puck robot using Python and C with the Webots framework.
- Our final aim was to apply this algorithm on a swarm of e-puck robots.

SERRE LAB, BROWN UNIVERSITY | Remote Collaborator
April 2020 – Current

- I am working as a remote collaborator with Professor Thomas Serre.
- My project involves using a meta learning approach to improve the generalization performance of current methods on progressive matrices such as RAVEN or PGM.

TESSELATE IMAGING | Contributor
March 2020 – Present

- Contributor to the open-source libraries of Monk AI, which is a resource for object-detection pipelines.

PROJECTS

GENERATING VIDEOS WITH SCENE DYNAMICS
Jan 2019 – May 2019
This was a formal research project taken under Professor Bijil Prakash, which involved using the large amounts of unlabeled video data available to learn a model how different frames in a video interact, and using that model generate new videos using generative models like GANs.

EMOTION DETECTION FROM EEG SIGNALS
Repository Link Aug 2019 – Dec 2019
A formal Research project under Professor Veeky Baths, which involved passing the EEG signals from the brain, obtained via the DEAP dataset, through a Convolutional Neural Net, and recognizing the various emotion levels of the human producing those EEG signals.

MULTILINGUAL COMPLAINT DETECTION FROM TWITTER DATA
Feb 2020 – May 2020
This research project was under Professor Swati Aggarwal, and it involved using Twitter data and a transformer based model to identify complaints and grievances. Work done in this project has been submitted as a long paper to EMNLP 2020.

ORGANIZATIONS

SAIDL | Former Vice President
Jan 2018 – Present

- SAIDL is the campus research group dedicated to deep learning.