Rijul Ganguly

f20170971@goa.bits-pilani.ac.in

EDUCATION

BITS PILANI
BE in Computer Science
August 2017-Present | Goa, India
Cum. GPA: 8.5 / 10

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

LINKS

Github:// Rijul1999
LinkedIn:// Rijul Ganguly
Twitter:// @shkanontrice
Organization Website:// SAIDL

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

MACHINE LEARNING TIP COURSE | Instructor
September 2018 – November 2018 and August 2019 - Present

- This course is offered by a student-led branch of our college, Technology Incubator Programme, dedicated to improve research culture among students
- The second iteration of the course going on this year is being done with the help of technical projects along with course materials.

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.

PIXXEL | AI Team
Jan 2019 – May 2019
Report Link

- Pixxel is a start-up by BITS Pilani students which aims to create and launch nano-satellites for efficient data collection and usage.
- I was part of the AI subdivision. My main work was on applying computer vision techniques on hyperspectral imagery which would be captured by the satellites in order to detect minerals in the Jhunjhunu region of the Rajasthan state of India.

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 – Present
My current formal Research project is under Professor Veeky Baths and involves 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.

NEURAL VOICE CLONING
Repository Link Jan 2018 – July 2018
An informal project which aimed at implementing Baidu's paper of the same name. Our main goal was to generate new voice embeddings for a speaker based on only a few samples using generative models. I was involved only in the intial stage of the project.

BILLIARDS
Repository Link Dec 2018 – Feb 2019
A project funded by the Electrical department which involved building a tutorial system for billiards using a system which could calculate trajectories of the ball. I was part of the visualization team

ORGANIZATIONS

SAIDL | Vice President
Jan 2018 – Present

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