Priyank Lohariwal

lohariwalpriyank@gmail.com | +91-9775958301

EXPERIENCE

SAMSUNG R&D INSTITUTE | SDE Summer Intern
May 2020 – Jul 2020 | Bangalore, India

- Developed a distributed computing based solution for providing live video feed and simultaneous facial recognition processing from a remote device.
- Implemented various live-streaming communication protocols such as webRTC and RTSP
- Created android applications to support the system.
- Integrated these applications in a pre-existing IOT architechture.

PROJECTS

NEUROIMAGING AND BRAIN NETWORK ANALYSIS
Jan 2019 – Present | Kolkata, India

- Modelled a system which captures the static and dynamic changes in different anatomically parcelled regions in fMRI volumes.
- Proposed a generic method to distinguish between fMRI volumes of subjects under different stimulus.

NATURE-INSPIRED OPTIMIZATION ALGORITHMS
May 2018 – Jan 2019 | Kolkata, India

- Developed an optimization algorithm for feature selection using Genetic and Particle Swarm Optimization Algorithms which trade-offs between exploration and exploitation.
- Implemented various evolutionary algorithms such as PSO and GSO.

OTHER WORKS

- Created a 3 layer 8085 simulator with One Pass Macro Processor, Two Pass Assembler and Simulator.
- Created an OCR Engine to detect text from an image and read it out using *python-tesseract* library
- Developing the official website of Piradius coachinig centre (in progress) www.piradius.in
- Contributed to open source project, *Chapel*

PUBLICATIONS

[1] I. Alam, P. Lohariwal, D. Jalan, A. Sinha, and S. kr. Saha. Identifying extrinsic functional activation of brain regions using bold signals. *TENSYMP, IEEE*, in press.

[2] M. Ghosh, R. Guha, I. Alam, P. Lohariwal, D. Jalan, and R. Sarkar. Binary genetic swarm optimization: a combination of ga and pso for feature selection. *Journal of Intelligent Systems*, 2019.

AWARDS

2018	Finalist	Kshitij'18
2019	Finalist	Srijan'19
2014	Runner Up	National Extempore Competition

EDUCATION

JADAVPUR UNIVERSITY
Bachelor of Engineering in Computer Science
Expected June 2021 | Kolkata, India
Cum. GPA: 8.612 / 10.0

B.N.S. D.A.V. PUBLIC SCHOOL
Class 12 - AISSCE, CBSE • 2017
Percentage: 96.2%

Class 10 - AISSE, CBSE • 2017
Cum. GPA: 10.0/ 10.0

SKILLS

PROGRAMMING
Proficient in:
C/C++ • JAVA • Python
numpy • scipy
Familiar with:
BASH • Chapel • HTML/CSS • JavaScript • MATLAB

TECHNOLOGY
Git/Github • Linux
Android Studio • Edge Computing
Pattern Recognition • Computer Vision

LINKS

Github:// **priyank23**
LinkedIn:// **plohariwal**
Portfolio:// **priyank23.github.io**

COURSEWORK

Analysis of Algorithms
Data Structures
Database Management System
Operating Systems
Computer Networks
Object Oriented Programming
Compiler Design

SOCIETIES

JU Science Club - Senior Coordinator
JU Code Club - Active Teaching Member
JU Journal - Organizer
JU Meme Cell - Co-founder

HOBBIES

Cricket • Netflix • Competitive Coding