

# 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 architecture.

## 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 coaching centre (in progress) [www.piradius.in](http://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	Kshitij'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](https://github.com/priyank23)

LinkedIn:// [plohariwal](https://www.linkedin.com/in/plohariwal)

Portfolio:// [priyank23.github.io](https://github.com/priyank23)

## 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