Somandra Rathore

RIT Boys Hostel, MSR Nagar, 560054 Bengaluru, India
Born on 08/07/2000 in Jaipur, Rajasthan

📱 +918949065107 | ✉ somandra.bhl2015@gmail.com | somandra | somandra

Work Experience

Samsung PRISM Developer

No.2870, Phoenix Building, Bagmane Constellation Business Park Doddanakundi Circle Post,
Outer Ring Rd, Doddanekundi, Marathahalli, Bangalore, Karnataka ,560037

Title : Classification of videos into Actions and Events
Domain : Media and Medical Solutions
SRIB Mentor : Ansh Jain

Samsung Research Institute Bangalore

Mar 2020 - Present

Education

Bachelors

Computer Science and Engineering
Bachelor of Engineering
CGPA - 9.19

M S Ramaiah Institute of Technology

2017-2021

High School

XII
Central Board of Secondary Education
Physics, Chemistry, Mathematics
Percentage - 90.6

Central Academy Sr. Secondary School

2016

Secondary

X
Board of Secondary Education, Rajasthan
Percentage - 83.83

Mayoor Public School

2014

Skills

Computer Science

• **Programming Language** : C++, Python, SQL, JavaScript, C, Java

• **database** : MySQL server, MongoDB,

• **Web Development / Frameworks** : HTML5, CSS3, Bootstrap, ReactJS, ExpresJS,

• **Algorithms** : Greedy, Divide and Conquer, Dynamic Programming

• **Data Structures** : Array, Linked Lists, Doubly Linked Lists, Tree, Priority Queue, Binary Search Tree

Data Science

• **Machine Learning** : Linear regression, Logistic regression, K-NN, Decision Tree, SVM, Elastic Net, Bagging, Boosting, Random Forest

Languages

English

Level 1

Hindi

Level 2

Additional Details

- Selected For Globalink Research Internship May 2020-Oct 2020 at École de technologie supérieure, Montreal, Canada
- Conducted a inter college Coding contest for students on Hacker rank Named as "Code for Thoughts" as a part of Team in which 100+ students participated.

Projects

Abnormal Event Detection in Surveillance Videos
Research Project

MODEL TRAINING AND OPTIMIZATION | GUIDE : ASST. PROF. MRS SINI ANNA ALEX
Feb 2020 - Jul 2020

- This is a system to detect and localize unusual objects, suspicious behaviors or irregular events in a scene.
- A hybrid approach of Convolutional-LSTM (long short term memory) is used to decide if an event is anomalous or normal.
- Tools and Technology used : Python3, TensorFlow

Classification of Videos into Actions and Events
Research Project

PRE-PROCESSING, MODEL DEVELOPMENT AND OPTIMIZATION | GUIDE : PROF. SHOBHA K R AND S. RAJARAJESWARI
Mar 2020 - Aug 2020

- This is a project I did during internship with Samsung electronics as a Part of PRISM team.
- Title : Classification of videos into Actions and Events
- Domain : Media and Medical Solutions.

Face Detection and Recognition Using Open-CV
Other Learning Project

CREATOR
May 2019 - Jun 2019

- It is a real-time face recognition system based on IP camera and image set algorithm by way of Open-CV and Python Programming development.
- The system includes three parts : Detection Mode,Training Module and Recognition Module.

Algorithm Visualizer
Other Learning Project

CREATOR
Mar 2020 - Apr 2020

- A react and JavaScript based web application I developed as the course project.
- All the algorithms are implemented using JavaScript and Front-end is Developed with react and react-router-dom.

Corona Tracker
Other Learning Project

CREATOR
Jul 2020

- This Voice Controlled ReactJS News Application which uses this API https ://covid19.mathdro.id/api for global data on covid-19 infected , recovered and death.
- React-chartjs is used for interactive charts for global and country-wise showcase.

News AI
Other Learning Project

CREATOR
Aug 2020

- This a Reactjs based Voice command operated project which uses News API for global news.
- Material-UI Caeds are used for news showcase. Different commands has been added to help searching news accross the globe.
- Alan-AI is used for Voice command Recognition.

Spring Boot Student Registration System
Course Project

CREATOR
Nov 2019

- Developed a Student Registration Platform using JDBC API and SQL Database.
- Developed on Sprin MVC Framework. HTML and CSS is used for front-end Styling.
- Creating optimized RESTful APIs for exposing the backend functionality to the UI/UX.
- CRUD functionality is implemented.

Licenses and Certifications

Algorithmic Toolbox
Credential ID GEYTH4KLXK8Y

COURSERA | NO EXPIRATION
Jul 2020

Dockers and Containers
No Expiration

MICRO FOCUS
Feb 2020

Machine Learning
Credential ID F6ZW7MQ82JB4

COURSERA | NO EXPIRATION DATE
Sep 2019

Programming in C++
Credential ID NPTEL18CCS32S21120790

NPTEL | NO EXPIRATION DATE
Sep 2018