

# Somil Singhai

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## EDUCATION

### BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI

B.E. IN ELECTRICAL AND ELECTRONICS

2016-20 | Pilani, India

Cum. GPA: 7.0 / 10.0

### SCHOOL EDUCATION

ICSE BOARD

90% |2014| Jabalpur, India

MP BOARD

88.88%|2016|Jabalpur, India

## LINKS

Facebook:// [somils](#)

Git-hub:// [limosin](#)

Linked-In:// [somilsinghai](#)

Twitter:// [@ss18041998](#)

Quora:// [Somil-Singhai](#)

## COURSEWORK

### UNDERGRADUATE

Data Mining

Operating Systems

Neural Networks and Fuzzy Logic

Digital Design

Object Oriented Programming

(Presently Doing)

Microprocessors & Interfacing

### MOOCS

Machine Learning

(Stanford University)

Deep Learning Specialization

## SKILLS

### PROGRAMMING

Languages:

Java • Python • C • Matlab • C++

Softwares:

IBM SPSS • VREP • Cadence • ROS

Tools/Frameworks:

Tensorflow • Pytorch • MxNet • keras

NumPy • Git • GitHub

Python Scripting

### LANGUAGES SPOKEN

English ••••

Hindi •••••

## EXPERIENCE

### ROURKELA STEEL PLANT | SUMMER TRAINEE

May 2018 - July 2018 | Rourkela, India

- Studied the SCADA control system Architecture used by the plant.
- Worked on measures to decrease the latency between the power substations and the control hub.
- Was a part of the team responsible for implementing a hot standby configuration for the data acquisition server.

### TEAM ROBOCON, BITS-PILANI | DESIGNING SUBSYSTEM HEAD

Sept 2016 - May 2018 | Pilani, India

- Designed and Simulated the various parts of the bot in Solidworks and ComSol.
- Also came up with a number optimized and robust algorithms for controlling the bot's dynamics using the joystick.
- Participated in the International ABU Robocon at Pune, India for consecutive years(2017 and 2018) securing ranks in top 20 out of 120 teams from all over India.
- Mentored the new recruits of the team and organized various Robotics workshops.

## PROJECTS

### PHOTO VOLTAIC PLANT PERFORMANCE MODEL

PRINCIPAL PROGRAMMER

Jan 2019 - Present | Delhi, India

- Responsible for building a Performance model for Solar Power Plants.
- The Model would allow us to compare the expected output of a solar power plant with its current output which would help us to find problems and faulty components in the system. Repository is not public due to proprietary reasons.

### SMART AIR MONITORING SYSTEM | RESEARCHER

Jan 2018 - Present | BITS, Pilani

Working with **Akshat Baranwal** to construct a cost effective air quality analysis mesh network. Procured funding for the same from the college.

### WAVELET NEURAL NETWORKS | RESEARCHER

Aug 2018 - Dec 2018 | BITS, Pilani

Worked with **Ankush C. Jahagirdar** to combine Neural Nets, Wavelet Decomposition and Stochastic functions to construct a new architecture for time series prediction.

## AWARDS

2018	Fellow	IISF-2018 (only 2 students shortlisted from the college)
2016	Fellow	ASME International
2015	Stage-1	Kishor Vagyanik Protsahan Yojna

### HOBBIES

Piano • Gaming • Badminton

