

Ishika Soni

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EDUCATION

IIT ROPAR

BTECH IN ELECTRICAL WITH MINORS
IN CSE

Expected May 2021 | Punjab, India
Cum. GPA: 8.89

CENTRAL BOARD OF SECONDARY EDUCATION

2015-2017 | Rajasthan, India
10th std: 10 / 10
12th std: 92/100

SKILLS

PROGRAMMING

C • C++ • PHP • Matlab
MySQL • Embedded C • HTML • CSS

COURSEWORK

*Computer Architecture, *Computer
Vision, Data Structures and Algorithm,
Probability and Stochastic Process, Linear
Algebra
(*Currently doing)

ONLINE

CERTIFICATION

Structuring Machine Learning Projects by
Stanford University on Coursera.
Improving Deep Neural Networks; Hyper
parameter Tuning, Regularization and
Optimization by Stanford University on
Coursera.
Machine learning by Stanford University
on Coursera

EXTRA CURRICULAR

Coordinator of Coding Club, IIT Ropar.
(August 2018 to April 2019)
Was member of IIT Ropar women
badminton team in inter-IIT sports meet
held at IIT Madras in 2017.
Recognized for public service by teaching
to the students of the Government school
(GUPS), Bhilwara.

CONTACT

+91-9057880344

PROJECTS

RISC-V SIMULATOR |COURSE PROJECT

Jan 2020 – Present | IIT Ropar

- Implemented the function of Simulator and pipelined simulator in C++ with GUI interface using qt framework.
- Simulator takes instruction encoding in MEM file as input and outputs values of all registers and cycles.
- Worked in team of 4 under guidance of Dr T.V.Kalyan.

HOSTEL MANAGEMENT PORTAL

Oct 2019 – Dec 2019 | IIT Ropar

- HTML5, CSS, for markup, design and interaction behaviour.PHP and MySQL as server side programming language and database.
- The project has two logins: Admin and user.
- Admin will manage all backend data like update sports equipment,view the complaint,edit student details(change in hostel or room no),edit/ delete in news and notice section and enable/disable the student account.
- On the front end students can download any Notice, can login or register and also student with account accessibility can issue sports equipment .

KEYPAD MOBILE

May2018 – July 2018

- The project was implemented using the AVR Studio and The language used was Embedded C and the code comprised about 3000 lines.
- The following features were included in the mobile: Digital clock, Calling option, Messaging option, Locking system, Contacts menu(checking existing contact, creating new contact, deleting existing contacts), Settings menu(Game, Music, Password change, Contacts option, Composing and sending messages, Basic calculator (all basic operations with two single digit number).

RESEARCH

UNDERWATER ACOUSTIC IMAGING|SUMMER PROJECT

May 2019 – July 2019 | IIT Delhi

Worked with **Prof Arun Kumar** for analysing acoustic reflection of objects for underwater acoustic imaging applications. Transmission and reception of sound in underwater using National Instruments data acquisition system, LabView and underwater projectors and hydrophones. Signal Processing including filtering and cross correlation analysis to study and parametrize the echoes from different objects .

ACADEMIC ACHIEVMENTS

- AIR 4509 in JEE-Advance conducted by CBSE.
- AIR 3649 in JEE-MAINS conducted by CBSE.
- Certificate of High Distinction in Australian National Chemistry Quiz, 2014.
- 100 percentile in mathematics at national level in ASSET held in summer 2014.
- Excellent performance certificate in NSTSE (rank secured 1347 at national level).
- Scored 82.62 percentile in 17th SOF National Science Olympiad held in 2014.
- Scored 97.23 percentile in 8th SOF International Mathematics Olympiad held in 2014