

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

CBSE

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, *Database, *Operating System
(*Currently doing)

CERTIFICATION

Structuring Machine Learning Projects
by Stanford University on Coursera.
Improving Deep Neural Networks by
Stanford University on Coursera.
Machine learning by Stanford
University on Coursera

ACHIEVEMENTS

AIR 4509 in JEE-Advance
AIR 3649 in JEE-MAINS
100 percentile in mathematics at
national level in ASSET, 2014.
97.23 Percentile in 8th
SOF, International Mathematics
Olympiad, 2014
1347 Rank in NSTSE
82.62 percentile in 17th SOF National
Science Olympiad, 2014

PROJECTS

RISC-V SIMULATOR | COURSE PROJECT

Jan 2020 – May 2020 | 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 Student.
- Admin will manage all info like update sports equipment, view complaint, student details (change in hostel or room no), edit/delete news or notice 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

May 2018 – July 2018

- The project was implemented using the AVR Studio and The language used was Embedded C and the code comprised about 3000 lines.
- It had following features: Digital clock, Calling and Messaging, Locking system, Contacts menu (existing contact, new contact, deleting contacts), Settings menu (Game, Music, Password change, Basic calculator).

EXPERIENCE

CHATBOT | DEEP LEARNING INTERN

May 2020 – July 2020 | Gemini Solutions

- I worked on Transfer Learning to build a State-of-the-Art dialog agent based on OpenAI GPT and GPT-2 Transformer language models.
- Using the above models I made the Generative Chatbot for kids and Ubuntu dialog box dataset and Retrieval Chatbot for SQuAD.
- I implemented the above models in Jupyter notebook using Colab.

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.

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
Recognized for public service by teaching at Government school (GUPS), Bhilwara.