ANTRIKSH GANJOO

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EDUCATION:

Bachelor of Technology, Electronics & Communication Engineering (CGPA - 8.41) **July2017 - present**
National Institute of Technology, Surat (3rd Year), Gujarat, India
Coursework: Digital Signal Processing, Digital Communication, Information Security, Embedded Systems.

Class XII board (PCM 97.33%) **May 2017**
Bal Bharati Public School Kharghar, Maharashtra, India.

Class X board (GPA 10.0/10.0) **May 2015**
Bal Bharati Public School Kharghar, Maharashtra, India.

Technical Interests: Wireless Communications, Computer Networks, Machine Learning.

Programming Languages and Technologies: C/C++(intermediate), Python(intermediate), Java (Beginner).

Tools: Arduino IDE, MATLAB, Jupyter Notebook, Google Colab, Visual Studio Code.

EXPERIENCE:

Research Intern: **Jun 2020 - July 2020**
• Worked remotely under Dr. Ribhu of the Electrical Department at IIT Guwahati. **IIT, Guwahati**
• Simulated various modulation schemes in MATLAB, compared the BER vs SNR for each.
• Simulated BER vs SNR for 2*2 MIMO system using BPSK modulation under Rayleigh fading channel in MATLAB.
• Also, worked on implementation of Spatial Modulation techniques for MIMO systems.

Network Engineer Intern: **Dec 2019 - Jan 2020**
• Worked on Cisco Packet Tracer, configuring various types of switches and routers. **Commtel Networks**
• Learned various internet protocols and subnetting. Simulated various routing protocols on Packet Tracer.
• Learned about fiber optics and RF/microwave communication and video surveillance system CCTV.

Project Intern-(IoT): **May 2019 - July 2019**
• Built a "**Smart Notice Board**" using Raspberry-Pi 3 model B+ and TFT display under Prof. P.J.Engineer. **NIT, Surat**
• It can be accessed remotely using an Android app. Used TKinter library in Python to build the GUI.

PROJECTS:

MRI Classification **Apr 2020**
• Built a Deep Learning model which classifies MRI brain scans into respective categories.
• Concepts studied: Linear Regression, Logistic Regression, Convolutional Neural Networks, Gradient Descent.
• Software used: Python 3.7, Jupyter Notebook, pyTorch, Fast-ai.

AWS IoT Remote Soil Moisture Monitor **Feb 2020**
• I built a soil moisture monitoring system using IOT.
• A ESP8266 Wifi module was used here to connect the system to the internet.
• Thus the state of the soil moisture can be measured from anywhere in the world.

AI Chat-Bot **Dec 2019**
• Made an AI chat-bot using Machine Learning and Natural Language Processing.
• Libraries used: NLTK, TextBlob, Numpy, Pickle.

Arduino AutoHome **Aug 2019**
• Used Arduino to run a code to control a relay board according to the inputs
• Had a web app displaying the respective output to the relay board which can be controlled by the web app.
• Allows to control all home appliances wirelessly with the help of any Wi-Fi enabled device.

Li-Fi Technology **Oct 2018**
• Used Light-Fidelity technology to transmit data from the audio system to speaker at output.
• Built the hardware using Solar Panels**,** Bread board, LEDs, jumper wires.

ACHIEVEMENTS:

• Selected as an **AI** scholar in **Intel® Edge AI Scholarship Foundation Course.**
• Project "**Smart Notice Board**" selected for final- round in a contest organised by IoT Academy.
• **Top 5** in my department after completion of 2nd year.
• **Gold Medalist** in International **Mathematics** Olympiad 2015, Stood first in the entire school.
• In the top **one percentile** of the students appearing in Class XII CBSE board examination in **Physics**. Scored(100/100).