MAYANK CHATURVEDI

mayankchaturvedi@iitbhilai.ac.in | +91-8303354008 | LINKEDIN | PORTFOLIO

Education

Indian Institute of Technology Bhilai (IIT BHILAI), India	**2020 - 2024**
● Bachelor of Technology (B.Tech) in Electrical Engineering	CGPA: *8.15/10* (Till 6th sem)	(expected)
SHIV JYOTI SENIOR SECONDARY SCHOOL, Rajasthan, India	**2017 - 2019**
● CBSE (Class XII), Aggregate: *93.6 %*	
ST. PAUL's SCHOOL, Uttar Pradesh, India	**2005 - 2017**
● ICSE (Class X), Aggregate: *91.67 %*	

Skills

Proficient in: C++, Web Development
Familiar with: C | Java | Python | Machine Learning | JavaScript | Blockchain | Solidity | Git | Latex | Matlab
Tools : Canva, ChatGPT, And many more latest AI tools.

CourseWork

Introduction to Programming **(Python) |** Computer Organisation and Architecture | Data Structures and Algorithms **(Udemy) |** Machine Learning | BlockChain | DataBase Management System

Projects

WHOLE HOME GESTURE RECOGNITION USING WIRELESS COMMUNICATION (Link)
A whole home automation using *Machine Learning, Arduino, SDR, USRPs and Wireless Communication. (No Sensors)*
- Features such as Doppler shift, Changes in Amplitude which characterized different gestures, an ML model was trained which can distinguish 3 different gestures.
- Signals were captured and automation was done in **real time**.

CAPTCHA GENERATOR (Link)
A Machine Learning Model that generates a captcha using *Machine Learning.*

MEDICAL HEALTH DETECTOR WEBAPP
A Healthcare WebApp built using *Python, Flask, CSS and HTML.*
- The System takes symptoms as input and gives an output of about what percentage of disease the person has.
- Also it suggests the nearest location of the Doctor who is a specialist in that treatment of the particular disease.

E-CERTIFICATE WEBAPP
A WebApp built on Ethereum Blockchain using *Solidity.*

PING PONG GAME
A Game developed using *Verilog, FPGA (Spartan 6)*
- It is a Dual Player game with two controllers and two monitors.
- The interface was developed using Xilinx and FPGA with the Verilog coding.

Academic Achievements

- **Coding Profiles:** HackerRank , GeeksforGeeks, Leetcode .
- JEE Advanced **AIR 8547** out of 1.5 lakh students appeared (Link)
- JEE Mains **AIR 8550** out of 13 lakh students appeared (Link)

Positions of Responsibility (Leadership and Involvement)

Cricket | Coordinator **March 22 - March 23**
- Managed all the sports for the **INTER-IIT 2022** and led the Cricket Team to INTER-IIT 2022 for the first time.
- Organized and Managed the Intra-College Tournament **(*Prayatna 5.0*)** and 4 tournaments successfully.

Epsilon (Robotics Club)| Core Member **March 22 - March 23**
- Took a 3 Day Workshop on Basics of Arduino and worked on projects based on Arduino and Robotics & IoT.
- Coordinated the Robo Soccer Event of College's Annual Fest. (*Meraz '22*)

Management Committee | Member **March 22 - March 23**
- Part of the management team for the farewell of our college's Ex-Director and welcome of the new director.
- Part of the management team of many events including Independence Day, Meraz, Republic Day.

Extracurricular

- Represented my college in Cricket (INTER IIT Sports Meet - 2022)
- My hobbies include Designing, Video Editing, Playing different sports, Sketching.