Vasu Jain

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EDUCATION

- **Indian Institute of Technology Mandi** — Himachal, India
  Bachelor of Technology - Information Technology; CGPA: 7.99 — 2021 - 2025
  Courses: *Digital Systems and Design, Computer Organisation and Architecture, Tools in Data Science, Machine Learning, Analog Circuit Design, Electrical Machines*

- **Gyan Bharati School, Saket, CBSE** — New Delhi, India
  Class 10: 95 % , Class 12: 97 % — 2012 - 2021

SKILLS SUMMARY

- **Languages**:   Python, C++
- **Frameworks**:   Scikit, NLTK, OpenCV
- **Tools**:   Verilog HDL, LT spice, Matlab, Google Colab, Pycharm, VS Code, Arduino
- **Platforms**:   Linux, Windows
- **Soft Skills**:   Communication, Writing, Event Management

EXPERIENCE

- **Foundations of Design Practicum Course (IC 102P)** — On-site
  Student Tutor (Part-time) — *Feb 2023 - May 2023*
  - **Role**: I was expected to assist three teams of first year students to build a robot according to the problem statement. The robot making comprised of stages such as mechanical design, algorithm programming and electrical connections.
  - **Mechanical Design**: Measurements of components to be adjusted, chasis, and PCB.
  - **Problem Statement**: To make your robot follow a specific path.
  - **Algorithm**: Specific sensors had to be selected from a set of various sensors integrated with an onboard C++ script. Sensors used by students were IR Sensors.

PROJECTS

- **E Mail Spam Classifier**:
  - **Overview**: An end to end Machine Learning project which involved classifying E-Mails as spam or useful using Natural Language Processing trained over a dataset of 5600 records (Nov 2022)

- **Bangalore House Price Prediction**:
  - **Overview**: A Machine learning model predicting prices of houses with a given area, BHK in Bangalore.(March 2023)

- **Making a Wifi Enabled Soccer Bot**:
  - **Overview**: Using ESP8266 wifi modules to develop a wifi controlled robot.
  - **Construction**: Other components used were L298N motor driver, DC motors and LiPo batteries   (Nov '22)

- **Making a Body Posture Detection System**:
  - **Overview**: Developed a system that detects and corrects the posture of human beings via suggestive feedback.
  - **Key components**: Flex sensors, vibration motors, servo motors (May '23)

POSITIONS OF RESPONSIBILITY

- **Media team Head, Astrax'23** — IIT Mandi
  Conducted online and offline Astronomy events for IIT Mandi's space fest AstraX — Nov 2022- March 2023
- **Event Coordinator, Astrax'22** — IIT Mandi
  Conducted Astronomy events for school students at IIT Mandi's ASTRAX. — Feb 2022- April 2022
- **NSS Volunteer** — IIT Mandi
  Volunteer under National Service Scheme(NSS), IIT Mandi — April 2022 - Present
- **Content Writer Volunteer, Rann Neeti'22** — IIT Mandi
  Wrote contents for event rulebooks and social media for IIT Mandi's Rann Neeti — Oct 2022 - Nov 2022
- **Discipline Prefect** — Gyan Bharati School
  Maintaining decorum at various spots on campus for events. — 2019-2021

HONORS AND AWARDS

- Secured the First Place in the inter Hostel Sports GC in Squash at IIT Mandi — April 2023
- Represented my University in the 55th inter IIT Sports meet in Squash held at IIT Roorkee — Dec 2022
- Secured First Place in inter Hostel Sports GC in Football in my first year at IIT Mandi — May 2022
- Sayak Chatterjee memorial Award for scoring highest marks in Science Class X — Nov 2019