AYUSH HARDAHA

National Institute of Technology, Raipur

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EXPERIENCE

Research Intern – CAD, MATLAB, ANSYS
NIT RAIPUR

📅 13 June 2022 – 14 July 2022   📍 Raipur
- Worked on designing a solar-powered drone.
- Utilized CAD, SolidWorks, Ansys, and MATLAB.
- Created 3D models of drone components using SolidWorks.
- Conducted structural and aerodynamic analysis using Ansys.
- Developed an optimization algorithm in MATLAB.

SKILLS
- Programming Languages: **Python, C++**
- Machine Learning and AI Frameworks: **TensorFlow, PyTorch, Scikit-learn.**
- Data Science: **pandas, NumPy, matplotlib**
- Deep Learning: **CNNs, RNNs, GANs**
- **NLP**
- Database Management: **SQL**
- **DSA**
- **OOP**
- Web Development: **HTML, CSS, JavaScript**.
- **MATLAB**
- CAD: **SOLIDWORKS**
- Problem-solving and Analytical Thinking
- Collaboration and Communication

EDUCATION

B.Tech in Mechanical Engineering - 8.49 CPI
National Institute of Technology, Raipur
📅 2020 - 2024

Higher Secondary – 87.4%
Central Board of Secondary Education
📅 2019

Senior Secondary – 9.8 CGPA
Central Board of Secondary Education
📅 2017

ACHIEVEMENTS
- Represented School at district level chess championship (2016).
- Received SAIL Scholarship as a meritorious student (2017,2019)
- Received multiple medals at different Olympiads.
  - 2 Gold and 2 silver at IMO.
  - 2 Gold and 1 silver at NSO.
  - 1 Gold and 1 bronze at NCO.

PROJECTS

WhatsApp Chat analyzer
- Developed a project to analyze WhatsApp chat conversations using machine learning techniques. Extracted insights such as most active participants, popular topics, sentiment trends, and other relevant metrics.
- **Tech:** ML, DL, NLP, python, NLTK

Which Bollywood celebrity are you?
- A deep learning project that determines which Bollywood celebrity a user resembles the most based on their uploaded photo.
- **Tech:** Python, TensorFlow, PyTorch, Keras, OpenCV, Dlib, Matplotlib, NumPy, SciPy.

Spotify Clone
- Developed a Spotify clone, aiming to replicate the key features and functionality of the popular music streaming platform.
- **Tech:** HTML, CSS, JavaScript.

LANGUAGES
- **English** (Professional)
- **Hindi** (Native)
- **French** (Elementary)

POSITION OF RESPONSIBILITY

Event Management Head at Robotix Club, NIT Raipur
- responsible for planning and organizing robotics events, managing budgets, coordinating logistics, and leading a team. My role involved participant coordination, marketing, on-site event execution, and evaluating event success.

Core-Coordinator at Shaurya-The sports committee of NIT Raipur
- responsible for smooth functioning of SAMAR- the annual sports event, managed overall volleyball tournament.