Mihir Chaturvedi

2019175, Email: mihir19175@iiitd.ac.in

DOB: November 18, 2000

Address: D-225, 3rd floor, Sarvodaya Enclave, New Delhi-110017

An ECE undergraduate inclined towards the fields of machine learning, embedded systems, and computer vision, who also takes interest in development gigs. I am a keen and a quick learner with a strong work ethic, a team player with fluent communication skills, and I am always willing to go the extra mile to achieve my targets.

Education

Indraprastha Institute of Information Technology, Delhi — CGPA: 8.09/10 (till 6th Semester)
B.Tech ECE
2019 – Present

The Mother's International School, New Delhi — Percentage: 94.2%
CBSE
2017 – 2019

The Mother's International School, New Delhi — CGPA: 10/10
CBSE
2005 – 2017

Skills

Expertise Area	Data Science and Machine Learning (with Python, Pandas and Scikit-learn), Web Development (Backend, Python Django)
Programming Language	Java, Python, Javascript (Vanilla JS)
Tools and Technologies	HTML, CSS, Figma, Git, Github, Visual Studio Code, MATLAB, R, MySQL, Zynq SoC, Vivado HLx, Docker, Arduino UNO, LTSpice, Cadence Tools (Virtuoso, Eldo)
Technical Electives	Advanced Programming

Internship

AvidSys Infotec Pvt. Ltd. — 22nd June – 31st July, 2020

Guide: Mr. Gaurav Goyal

Assisted the team and worked on building a Django backend to support a custom Software-as-a-Service (SaaS)-based web application.

Certificate: https://drive.google.com/file/d/1cMcM-

_gbwS7BiUhA0I6e1Hqz1MXpObHT/view?usp=sharing

Data Science Intern at ExtraMarks Education India Pvt. Ltd.

May 2022 - Present

Guides: Dr. Mukesh Mohani, Dr. Vikram Goyal, Mrs/Ms Taru Singhania, Mr. Milind Kumar

Team Size: 2

Developing real-time forecasting models for the sales team. We hope to achieve:
1. Identification of leads with high convertibility and their effective allocation to sales executives in accordance to their performance
2. Minimization of wasted leads
3. Identifying fake sales
This will help in strategizing marketing efforts by developing an efficient customer segmentation model. The impacts of the same will be simulated with the help of a sales forecasting model.

Offer Letter:
https://drive.google.com/file/d/1BPfAAww02K_XgwB6iFTmYNtv8_xTGbgb/view?usp=sharing

Projects

- **Solutions for Remote SoC Labs (Ongoing)**

Guide: Dr. Sumit J. Darak

Implementing hardware and software solutions for remote System-on-Chip labs, for courses involving embedded systems.

We are designing a system that will provide a seamless user experience while offering efficient resource management for the teaching staff.

Link: https://github.com/mchat0018/soc_labs/tree/mihirside

Intermediary Report:
https://drive.google.com/file/d/10Q6A6q0FBBYUizoPKoLZnxtg32bxRe9y/view?usp=sharing

- **Analyzing Football National Team Performance using Transfer Data from Top 10 European Teams (Machine Learning)**

Guide: Dr. Saket Anand

March 2022 – May 2022

Team Size: 3

We made a match prediction model for the top 10 men's international football teams in Europe, and study the relevance of transfer patterns of their corresponding first-division leagues to their international performance. More specifically, we wanted to analyze whether a country's major league's expenditure on local players and the youth (below a certain age) translates to international results.

Github link: https://github.com/parth19184/ML_Project/tree/main

Report:
https://drive.google.com/file/d/1yJY0gcLa9042AjehBncqhpd0H2M1nsoZ/view?usp=sharing

- **Professional Eye Care Website (Independent project, ongoing)**

Guide: Mr. Gaurav Goyal

Designing a professional ophthalmological website for a freelance doctor to offer their consultancy and book appointments with visiting patients, while maintaining a blog recording their professional views on the field.

Link: https://github.com/mchat0018/FinalProject_Django/tree/master/EyeCare_Blog

- **RISKV RV32I Assembler and Simulator (Computer Architecture)**

Guide: Dr. Sujay Deb

November 2021

Team Size: 3

Implemented a RV32I Assembler and Simulator which supports 17 instructions from the ISA. Simulator also provides the models for main memory and L1 cache, with unified space for instructions and data. The size, associativity as well as the write and replacement policies of the cache are parametrized, along with other necessary features

Link: https://github.com/parth19184/CAassignment

- **Color Switch (Advanced Programming)**

Guide: Dr. V.Raghava Muthuraju

Decembe r 2020 Team Size: 2

Implemented the Color Switch Game with save and load functionality using Java, JavaFX and OOPS concepts.

Link: https://github.com/Ananya-Kansal/AP_PROJECT

- **Pong (Prototyping Interactive Systems)**

Guide: Dr. Aman Parnami

October 2019

Team Size: 3

Implemented Pong using Java Processing for animation and gameplay, and Arduino UNO with ultrasound sensors for motion control (Can control the racquets on the screen by moving hands)

Positions of Responsibility

- Student representative, Student Council IIIT-D (2019 – 20)
- Taekwondo Coordinator, Sports Council IIIT-D (2020-21)

- Member: Campus Well-Being Committee IIIT-D (2020-21)

Awards and Achievements

- Gold medal for Taekwondo at Spardha'2019 (IIT-BHU)
- Gold and Bronze medals for Taekwondo at Triquetra'2019 (IIIT-Delhi)
- Honorary Mention in IIT-Delhi MUN (Rendezvous, 2019)

Interests and Hobbies

- Football, Martial arts
- Keyboard
- Sketching

Declaration: The above information is correct to the best of my knowledge.
Mihir Chaturvedi
Date: June 29, 2022