HIRAL ARORA

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ACADEMIC QUALIFICATIONS

University of California – Davis, B.S. in Computer Science and Engineering (Freshman) | 2028 | unweighted GPA: 3.831
Completed Grade XII (CBSE) – Somerville School Noida, UP, India | Year of completion: 2024 | unweighted GPA: 3.68 (92%)

Coursework: Computer Science, Mathematics, Physics, Chemistry, English

Completed Grade X (CBSE) – Somerville School Noida, UP, India | Year of completion: 2022 | unweighted GPA: 3.84 (96%)

RESEARCH WORK

- Wrote a research paper titled "An Exploratory Ukraine Rising Commodities Price Analysis: Towards a Resilient Food System", which was accepted in the 22nd United Kingdom Workshop on Computational Intelligence conference held at Aston University, UK, and published in the conference proceedings, **Advances in Computational Intelligence Systems, Springer.** Received the **Young Researcher Award** in the conference.(*Sep 2023*)

PROJECTS-

- **SKILL SCALAR**

  Jan 2025 – Mar 2025

  Developed a web application that matches resumes with job listings scraped from platforms like LinkedIn, Indeed, Google, and ZipRecruiter.
  Provided course recommendations to bridge skill gaps based on resume analysis.
  Integrated computer vision to suggest interview outfits.
  Led a team of five peers and won Best Technical Project at the Mid-Year Project Showcase.
  Built using React.js, FastAPI, and GitHub.

- **Diabetes Risk Prediction**

  Sep 2024 – Nov 2024

  Developed a machine learning model to predict the risk of diabetes in patients based on key health indicators, such as blood pressure, insulin levels, and BMI. Analyzed the dataset to derive insights and applied various machine learning algorithms, including Random Forest, Logistic Regression, and Support Vector Machines (SVM), to evaluate accuracy and model performance. Designed and implemented a user-friendly front-end interface allowing patients to input their data and receive a risk assessment based on the model's predictions.

- **DO-GOODING – Web Application for Donation Coordination**

  Jun 2023 – Oct 2023

  Developed a web application that connects donors and recipients, enabling seamless interaction and donation of items such as stationery, clothing, and consumables. Incorporated features like distance-based filtering to match donors with nearby recipients. Led front-end development using ReactJS, creating a user-friendly interface. The platform currently supports 4 NGOs and over 200 active donors.

WORK EXPERIENCE / INTERNSHIPS -

- **Founder – Hiraethereal Tech:** Leading a start-up venture that offers computational solutions for societal issues with its first project (**https://do-gooding.in/**) focused on building a mediating platform between donors and NGOs, facilitating the donation of stationary, clothes, and consumables (*Jun 2023-Present*)
- **Director of Technology – Project Neurova:** Overseeing the Technology department, supervising website construction and management, and collaborating with the Marketing Team to manage social accounts (*Jun 2023-Present*)
- **Team Head – Girls Who Code (New York):** Headed my group in the sisterhood activities, where a group of 15 participants connected to brainstorm ideas for the development of a variety of interactive games and debugging codes (*Jul 2023-Aug 2023*)
- **Mentor – Technovation Girls:** Helped new teams in selecting the right coding platform for app development, assisted in debugging codes, and preparing a pitch for the app (*Apr 2023-Present*)
- **LIDAR Beginer Intern, Sai Infotech Systems Ltd. (SISL), Noida, India** – worked under mentors on LIDAR projects, learned about LIDAR (Light Detection and Ranging) fundamentals and its geographical information system applications developed by SISL, worked on SISL projects' social media posts, maintained LinkedIn account, and engaged in client interaction activities *(Sep 2022-Nov 2023)*
- **Website design, Technology, and Entrepreneurship Ladder, a startup by UC Berkley Alumni** – built a website for a T&E non-profit organization, conducted educational webinars as part of a technology culture spread initiative for Kenya middle school students *(Jun 2023)*
- **Posting code blogs for budding programmers on hiralarora.com** to guide novice programmers through various coding platforms such as Python, scratch, P5.js, and Replit *(Sep 2021-Present)*

CLUBS-

- **#Include – Davis (Jan 2025 – Present)**
- **Google Developers Student Club – EXPLORE COHORT (Oct 2024 – Present)**
- **AI student Collective – Beginner Projects. (Sep 2024 – Nov 2024)**
  Developed a machine learning model to predict the risk of diabetes in patients based on key health indicators
- **Vice President – School Computer Science Club, "Void"**: organized Inter school Computer Fest "Incognito-2023" *(Apr 2022- Dec 2023)*
  Responsibilities: Fest theme planning, Incognito events and award ceremony management; planning and organization – Senior Programming Competition and Webbed – Web Application Development competition

SKILLS

- C(Intermediate), Python(Intermediate), C++(Intermediate), React JS(Beginner), CSS(Beginer), HTML(Beginner), JavaScript(Beginner), Rstudio, Git
- Data analysis – worked with machine learning models and artificial neural networks.

FOREIGN EXCHANGE AND STUDY PROGRAM

- **"C Programming Specialization", Duke University-Coursera –** learned debugging in gdc, compiling in gcc, learnt UNIX commands, Programming in C, Algorithm Design(June 2024)
- **Summer Immersion Program, Morgan Stanley 2 International –** learned professional practices and STEM career skills during partner engagement activities with GWC, received Morgan Stanley merchandise as a reward for confident and clear elevator pitch presentation *(Aug 2023)*
- **Summer Immersion Program, Girls Who Code (GWC), New York –** learned game development in P5.js and Code in Replit, participated in advisory sessions, partner activity, STEM career sessions, sisterhood activities, and tech spotlight activities, and received GWC merchandise for active participation, clarity of code, and peer learning (*Jul 2023-Aug 2023*)