



Vishal Paudel

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EDUCATION

- Plaksha University, Mohali B.Tech in Computer Science and Artificial Intelligence 2021-25 CGPA: 8.3

WORK EXPERIENCE

- VibeBasket (IIT-Bombay E-cell incubated Start-up)** | Software Engineer 2023
- Developed a Word2Vec module from scratch for the LLM chatbot using Python. Deployed a corresponding Discord bot.

PROJECTS

- An efficient implementation of Mandelbrot Set Graphical Browser** | Professor K. Gopinath, IISC Bangalore 2023
- Developed a multithreaded graphical exploration tool in Julia Lang, showcasing proficiency in parallel processing and mathematical visualization.
 - Demonstrated creativity and mathematical aptitude by crafting an interactive platform for exploring the intricate and visually captivating Mandelbrot set.
- Stern Gerlach Experiment Emulator** | Dr. Nitin Upadhyaya 2022
- Simulated the effects of intrinsic quantum spins in electrons when passed through a magnetic field, using Qiskit and Pygame.
- Efficient Vertical Axis Wind Turbines** | Dr. Shashikant Pawar 2021
- Built a prototype of a self-designed vertical axis wind turbine. Produced 8% more power than traditional VAWTs.
- Demonstration of Emergent Behavior in Dynamical Systems** 2021
- Built a software simulation tool in Python using Pygame that demonstrates emergent behavior.
- Prototype BCI Prosthetic Arm** 2019
- Prototyped a BCI prosthetic arm using OpenBCI and Arduino UNO, allowing control via eye-driven signals from the visual cortex.

TOOLS AND SKILLS

- Programming Languages:** C/C++, Rust, Python, Julia, Haskell.
- Software Tools and Packages:** Linux, Vim/Neovim/Helix, Matlab, Unity Game Engine.
- Others:** Computer Simulations, Chess (State Level), Competitive Programming (Pupil on Codeforces).

POSITIONS OF RESPONSIBILITY

- Leader of Robo Siksha Kendra** at Vidya School, Gurgaon. 2016
- Mentor at Young Technology Scholars**, Pathways World School, Aravali. 2019

AWARDS AND HONORS

- MENSA India:** scored at the 99th percentile on a standardized, supervised IQ test. 2014
- FIRST Lego League:** Best robot design, amongst 120 schools in the North Zone. 2016
- Prototype BCI Prosthetic Arm:** Won a cash prize of INR 20,000 at Pathways World School. 2019
- Bharti Scholar** Recipient of a scholarship of INR 36 Lakh from Mr. Rakesh Bharti Mittal. 2021