Vishal Paudel

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PLAKSHA UNIVERSITY

EDUCATION

- **Plaksha University, Mohali** B.Tech Computer Science and Artificial Intelligence 2021-25 — *CGPA: 8.3*
- **Vidya School, Gurgaon** 12th — board AISCE — *CGPA: 8.5*
- **Vidya School, Gurgaon** 10th — board AISCE — *CGPA: 8.9*

WORK EXPERIENCE

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

Dr. Jainendra at IIITD | Research Intern Human Machine Interaction Lab — *2023*
- Built an end-to-end head posture detection tool on smart-glasses data using python, and Pytorch.

Dave AI (Artificial Intelligence) | *Unity Game Engine Trainee* — *2022*
- Built mini projects using Unity and Blender. Worked as a trainee.

Dr. Amrik Sen at Plaksha University | *Research Intern Metaverse and Gaming* — *2021*
- Built games and simulations teaching higher-math concepts in probability and statistics using Python. Deployed at Plaksha.

PROJECTS

Head Posture Detection from smart-glasses data — *2023*
- Achieved 87% accuracy predicting head posture from smart glasses' orientation data using a PyTorch model.

Demonstration of Emergent Behavior in Dynamical Systems — *2023*
- Built a software simulation tool in Python using Pygame that demonstrates emergent behavior.

Efficient Vertical Axis Wind Turbines | Dr. Shashikant Pawar — *2021*
- Built a prototype of a self-designed vertical axis wind turbines. Produced 8% more power than traditional *VAWTs*.

Moving Prosthetic arm with Brain Signals — *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++, Haskell, Julia, Python.
- **Software Tools and Packages:** Matlab, Unity Game Engine, Blender, Linux CLI, Vim
- **Other Skills Category:** Computer Simulations, Chess (State Level), Competitive Programming (Pupil on Codeforces).

POSITIONS OF RESPONSIBILITY

- *Leader of Tod Fod Jod* club at Vidya School, Gurgaon. — *2014*
- *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*
- *Best Robot Design* in *FIRST Lego League*, amongst 120 schools in the *North Zone.* — *2016*
- *BCI Prosthetic Arm* Project demonstration won a cash prize of INR 20,000. — *2019*
- *Bharti Scholar* Recipient of a scholarship of INR 36 Lakh from Mr. Rakesh Bharti Mittal. — *2021*
- *Gold Medalist* in the *Plaksha Summer Entrepreneurship Program* led by Rajesh Sawhney. — *2022*