

Prerak Agarwal

 | +91 7838573371 | prerakagarwal71@gmail.com

EDUCATION

2021 - Present	B.Tech in Electronics & Communication Engineering (Specialization in AI/ML) Bharati Vidyapeeth's College of Engineering, New Delhi, India
2021	Class 12th Nutan Vidya Mandir Public Sr. Sec. School Grade: 80%
2019	Class 10th Nutan Vidya Mandir Public Sr. Sec. School Grade: 90%

SKILLS

- **General** – DATA ANALYTICS, Arduino programming, VHDL programming, RADAR,
- **Programming Languages** – Python, Java
- **Frontend Development** – HTML, CSS, JavaScript, Bootstrap, Figma, WordPress
- **Software Packages** – MATLAB, OpenCV

PROJECTS

Optimization of solar energy by using solar tracker system

March 2024

- Developed a solar tracking system by combining microprocessor, sensors and peripheral units.
- Optimizing solar energy with solar trackers involves aligning panels to follow the sun's path, significantly boosting efficiency.
- Dual-axis trackers provide maximum energy capture. These systems increase output by 25-40%, making them ideal for maximizing solar energy.

Body Detection and Height Measurement using Python

May 2024

- Developed and implemented a body detection and height measurement system using Python and OpenCV, leveraging pre-trained models and image processing techniques.

- Achieved accurate height measurement by calibrating with a reference object, enhancing system reliability in various environmental conditions.

CERTIFICATIONS

- **AI /ML Specialization by Bharati Vidyapeeth college of Engineering.**
- **E-commerce Website with HTML & CSS by Great Learning.**
- **Front End Development by SkillUP.**
- **Software engineering job Simulation by Goldman Sachs.**

ACHIEVEMENTS

1. **Ranked 3rd** in Ideathon conducted by OPTICA BVCOE
2. **Secured 5th** position in Hackathon conducted by Hack Blocks at Microsoft

EXPERIENCE

- **Teaching experience.** March,2023 - Dec,2024
One year teaching experience in coaching center
-- Having teaching experience as a Mathematics tutor of grade 6 to 10.
- **Internship at BHARAT ELECTRONICS LIMITED (BEL), Ghaziabad.**
In PA-R (RADAR) Dept on Study of Radar under the
Mentorship of Mr. Manish Kumar Rai June,2024 - Present
- **Internship at Uttar Pradesh Metro Rail Corporation (UPMRC)** Sept,2024 - Present

POSITION OF RESPONSIBILITY

- **Indigo Squad Member, IIT Bombay** July,2024 – Present
Mood Indigo IIT Bombay
- **Student Ambassador at LetsUpgrade EdTech Pvt Ltd.** July,2024 - Present
- **Student Ambassador at Internshala (ISP)** Sept,2024 - Present
- **Video Editor**
Horizon, BVCOE Chapter May,2023 – Mar,2024

LANGUAGE

English, Hindi