

# Paramdeep Singh Gill

[paramdeep299792.me](http://paramdeep299792.me) | [paramdeep299792@gmail.com](mailto:paramdeep299792@gmail.com) | [paramdeepsg.cs.26@nitj.ac.in](mailto:paramdeepsg.cs.26@nitj.ac.in) |  
[s.paramdeep299792.me](https://s.paramdeep299792.me),  $\forall s \in \{\text{linkedin}, \text{github}\}$

## EDUCATION

|                                                                                                                                                                      |                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Dr. B. R. Ambedkar National Institute of Technology (N.I.T.) Jalandhar</b><br><i>Master of Technology (M.Tech.) in Computer Science and Engineering, CGPA: NA</i> | Jalandhar, Punjab<br>July 2026 – Present |
| <b>Thapar Insitute of Engineering and Technology (T.I.E.T.)</b><br><i>Bachelor of Engineering (B.E.) in Computer Engineering, CGPA: 8.09</i>                         | Patiala, Punjab<br>Sep 2021 – Jun 2025   |
| <b>Apeejay School, Mahavir Marg (C.B.S.E. affiliated)</b><br><i>10 + 2 (Non Medical), Percentage: 95.60%</i>                                                         | Jalandhar, Punjab<br>2021                |
| <b>Apeejay School, Mahavir Marg (C.B.S.E. affiliated)</b><br><i>10, Percentage: 90.33%</i>                                                                           | Jalandhar, Punjab<br>2019                |

## EXPERIENCE

|                                                                                                                                                                                                                                     |                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>IIT Ropar</b><br><i>Research intern</i>                                                                                                                                                                                          | Rupnagar, Punjab<br>January 2025 - June 2025                          |
| <ul style="list-style-type: none"><li>Explored Knowledge Distillation for Model Compression in Medical Domain.</li><li>Under the guidance of Dr. Deepti Reddy Bathula (Indian Institute of Technology (IIT) Ropar, India)</li></ul> |                                                                       |
| <b>AgNext</b><br><i>Android developer intern</i>                                                                                                                                                                                    | Sahibzada Ajit Singh (S.A.S.) nagar, Punjab<br>May 2023 - August 2023 |
| <ul style="list-style-type: none"><li>Flutter: Built android apps that connect to BLE devices.</li></ul>                                                                                                                            |                                                                       |

## AWARDS AND RECOGNITION

|                                                                                                                                                                               |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <b>Runner-Ups - HackForSustainability</b><br><i>Organised by Saturnalia Fest (largest in North India) for Project Saarthi</i>                                                 | 2023<br>Patiala, Punjab   |
| <b>Winner - Smart India Hackathon (SIH) (Senior Software Edition)</b><br><i>Team Leader and Front-End Developer (Problem Statement under DoSEL, Ministry of Education)</i>    | Aug 2022<br>Karnataka     |
| <b>Awarded Merit Scholarship – II (Tuition fee waive off)</b><br><i>From Thapar Insitute of Engineering and Technology</i>                                                    | 2022<br>Patiala, Punjab   |
| <b>Dr Styra Paul Award for Human Values – 2020</b><br><i>In Senior Secondary Category and scholarship at Apeejay School, Mahavir Marg</i>                                     | 2020<br>Jalandhar, Punjab |
| <b>ATL Student Innovator Award</b><br><i>Certificate of Merit by Atal Innovation Mission, Niti Aayog</i>                                                                      | 2019<br>Jalandhar, Punjab |
| <b>Qualified for National Championship of World Robot Olympiad (WRO)</b><br><i>For the year 2016 &amp; 2017. Secured third position in Regional Championship of WRO 2017.</i> | 2016 and 2017             |

## ON-GOING PROJECTS

|                                                                                                                                                                                                                                                                                                                                                                                              |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>XAI-FL</b><br><i>Research project</i>                                                                                                                                                                                                                                                                                                                                                     | 2026<br>Remote |
| <ul style="list-style-type: none"><li>Trying to integrate XAI (Explainable Artificial Intelligence) on models trained using FL (Federated Learning). With a focus on using privacy preserving techniques like Differential Privacy.</li><li>Guide: Dr. Parteek Kumar Bhatia (WSU, USA) and Dr. Sachin Kansal (TIET, India)</li><li>Technology used: PyTorch, InterpretML, NVFlare.</li></ul> |                |
| <b>BioFL</b><br><i>Research project</i>                                                                                                                                                                                                                                                                                                                                                      | 2026<br>Remote |
| <ul style="list-style-type: none"><li>Working on applying Federated Learning (FL) on unexplored biomedical datasets.</li><li>Guide: Dr. Parteek Kumar Bhatia (WSU, USA) and Dr. Kashish Goyal (TIET, India)</li></ul>                                                                                                                                                                        |                |

- Technology used: PyTorch, InterpretML.

## Deepfake Detection

*Group Research project*

2026

*Remote*

- Working on building a model to detect deepfake in dataset having audio video modality.
- Guide: Dr. Shefali Arora Chouhan (NIT Jalandhar, India)
- Technology used: PyTorch

## PROJECTS

---

### ThaparSat research project

2024

*Solo project*

*Patiala, Punjab*

- Systematic Approach to Enhance Signal Quality and Noise Reduction in Remote Sensing and Astrophysical Applications
- Capstone project under the guidance of Dr. Seema Bawa and Dr. Mamta Gulati

### Vriddhi App

2022

*Group Project*

*Patiala, Punjab*

- An app to guide parents to facilitate and ensure holistic growth in cognitive, psychomotor and affective domains. Contributed in the front-end of the app (using Flutter-Dart).
- Technology used: Flutter-Dart, Firebase, GetX, React Js, Chart Js, Swiper Js, Figma.

## TECHNICAL & RESEARCH SKILLS

---

**Machine Learning & AI:** PyTorch, InterpretML, NVFlare, OpenCV, NumPy, Matplotlib, Knowledge Distillation, Federated Learning

**Programming Languages:** C, C++, Python, Dart, HTML, CSS, SQL

**Research & Academic Tools:** LaTeX, AsciiDoc, Zotero, Git, GitHub, VS Code, JupyterLab

**Development Frameworks:** Django, Flutter, Firebase

## EXTRA-CURRICULAR AND VOLUNTEER

---

### WRO 2026 Regional Championship, Jaipur

8 August, 2026

*Judged the participants in 'Future Innovators' category.*

*Jaipur, Rajasthan*

### WRO 2026 Regional Championship, Chandigarh

8 July, 2026

*Judged the participants in 'Future Innovators' category.*

*SAS nagar, Punjab*

### International Conference on Statistical Learning (ICSL)

2025

*Presented 'Systematic Approach to Enhance Signal Quality...'*

*Rupnagar, Punjab*

### Open Web Application Security Project (OWASP)

2022 - 2023

*Team Member: Presented a session on blockchain as part of orientation of first year students.*

*Patiala, Punjab*

### Center for Training and Development (CTD)

2021 – 2023

*Senior Coordinator: Coordinated the Placement Symposium.*

*Patiala, Punjab*

### International Award for Young People (IAYP)

2019

*Successfully completed Bronze Category Course.*

*Jalandhar, Punjab*

## REFERENCES

---

### Dr. Deepti Reddy Bathula

*Associate Professor, IIT Ropar*

[bathula@iitrpr.ac.in](mailto:bathula@iitrpr.ac.in)

*Rupnagar, Punjab*

### Dr. Seema Bawa

*Professor, TIET*

[seema@thapar.edu](mailto:seema@thapar.edu)

*Patiala, Punjab*