

Paramdeep Singh Gill

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EDUCATION

Thapar Insitute of Engineering and Technology (TIET) <i>Bachelor of Engineering in Computer Engineering, CGPA: 8.09</i>	Patiala, Punjab Sep 2021 – Jun 2025
Apeejay School, Mahavir Marg (C.B.S.E. affiliated) <i>10 + 2 (Non Medical), Percentage: 95.60%</i>	Jalandhar, Punjab 2021
Apeejay School, Mahavir Marg (C.B.S.E. affiliated) <i>10, Percentage: 90.33%</i>	Jalandhar, Punjab 2019

EXPERIENCE

IIT Ropar <i>Research intern</i>	Rupnagar, Punjab January 2025 – June 2025
Explored Knowledge Distillation for Model Compression in Medical Domain. Under the guidance of Dr. Deepti Reddy Bathula (Indian Institute of Technology (IIT) Ropar, India)	
AgNext <i>Android developer intern</i>	Sahibzada Ajit Singh (S.A.S.) nagar, Punjab May 2023 – August 2023
Flutter: Built android apps that connect to BLE devices.	

AWARDS AND RECOGNITION

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

ON-GOING PROJECTS

XAI-FL <i>Research project</i>	2026 Remote
- 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. - Guide: Dr. Parteek Kumar Bhatia (WSU, USA) and Dr. Sachin Kansal (TIET, India) - Technology used: PyTorch, InterpretML, NVFlare.	
BioFL <i>Research project</i>	2026 Remote
- Working on applying Federated Learning (FL) on unexplored biomedical datasets. - Guide: Dr. Parteek Kumar Bhatia (WSU, USA) and Dr. Kashish Goyal (TIET, India) - Technology used: PyTorch, InterpretML.	
Deepfake Detection <i>Group Research project</i>	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, 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

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Rupnagar, Punjab

Dr. Seema Bawa

Professor, TIET

seema@thapar.edu

Patiala, Punjab