# Neha

Doctor of Philosophy
in Computer Science & Engineering
Indian Institute Of Technology, Ropar

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## Education

| Degree | Institute / Board | CGPA / Percentage | Year |
|---|---|---|---|
| Doctor of Philosophy | Indian institute of Technology, Ropar | 8.65 | 2025-Present |
| Master of Computer Applications (MCA) | Himachal Pradesh Technical University | 9.09 | 2022-2024 |
| Bachelor of Science (Computer Science) | Himachal Pradesh University | 8.28 | 2019-2022 |
| Senior Secondary (Class XII) | CBSE, JNV Pekhubela, Una | 81.8% | 2019 |
| Secondary (Class X) | CBSE, JNV Pekhubela | 9.2 | 2017 |

## Experience

- **InfoTech soft Solutions** *Apr 2024 - Oct 2024*
  *Industrial Training* Chandigarh
  - Done the compulsory industrial training on the Asp.Net,MERN,MEAN languages

- **Channel Fusion** *Oct 2024 - Dec 2024*
  *Intern* Chandigarh
  - Worked on projects using .Net and also managing the dataset using the MySQL

## Projects

•**ECommerce website**
*Industrial Training and project work* *Jan 2024- Jun 2024*

  - The website was mainly designed for the purchase of the music instruments.

•**Garment Modeling with Data-driven Shape and Deformation Priors to Induce High-Fidelity Garment 3D Generation**
*Deep Learning for Computer Vision* *Jan 2025– May 2025*

  - Generated realistic 3D garments aligned with human body shapes across diverse poses using data-driven learning.
  - Learned garment-specific shape and deformation priors to guide high-fidelity garment generation.
  - Analyzed how deformation priors improve geometric realism and structural consistency of generated garments.

•**TEncDM: Understanding Diffusion Models inLanguage Model Encodings**
*Natural Language Processing and Large Language Models* *Aug 2025– Nov 2025*

  - TEncDM, a diffusion-based model that generates text by operating in the contextual encoding space of pre-trained language models.

## Key courses taken

- **CSE & Maths**:
  Mathematical Foundations of Computer Science, Deep Learning for Computer Vision, Machine Learning, Optimization for Machine learning, Foundation of Data Science, Natural Language Processing and Large Language Models

## Achievements

- **NCC**,NCC **B** and **C** Certificate Holder *2019 – 2022*
- **NET-JRF**,Qualified NET-JRF with 98.99 percentile *2024*
- **Gold Medalist**,Master of Computer Applications *2022 – 2024*

## Workshops and Certifications

- HPKVN: Certified Add on Program by HPKVN on the course Web Developer with NSQF level 5 of duration 1 year.

- 7 days workshop on Internet Of Things.

- NVIDIA - Fundamentals of Deep Learning workshop completion