Abhishek Tandon
Master of Technology (Research)
Computer Science and Engineering
(Intelligent Systems)

Indian Institute of Technology Mandi
abhishektandon0406@gmail.com

Examination	Affiliation	Institute	Year	CPI/%
Post Graduation	IIT Mandi	IIT Mandi	2025	9.00/10
Graduation	AKTU Lucknow	KNIT Sultanpur	2021	9.59/10
Intermediate/+2	CBSE	Wilsonia Scholars' Home, Moradabad	2017	92.4%
Matriculation	ICSE	Wilsonia College, Moradabad	2015	92.8%

M.TECH (BY RESEARCH) THESIS

- **Applications of Deep Generative Modeling in Biometrics**
  *(M.Tech (by Research) Thesis, Guide: **Dr. Aditya Nigam, IIT Mandi**)* *(Nov'22-Present)*
  Current work:
    - Generating synthetic data for co-operative biometrics such as forehead-creases images.
  Publications:
    - Abhishek Tandon, Geetanjali Sharma, Gaurav Jaswal, Aditya Nigam, Raghavendra Ramachandra. *"Generating Realistic Forehead-Creases for User Verification via Conditioned Piecewise Polynomial Curves."* In IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) Workshops 2025.
    - Abhishek Tandon, Geetanjali Sharma, Gaurav Jaswal, Aditya Nigam, Raghavendra Ramachandra. *"Synthetic Forehead-creases Biometric Generation for Reliable User Verification."* In 2024 IEEE International Joint Conference on Biometrics (IJCB).

UNDERGRADUATE PROJECTS

- **Complaint Analyser Using Machine Learning** *(Aug'20-May'21)*
  *(B.Tech Major Project, Guide: **Dr. Arvind Kumar Tiwari**)*
    - A mobile app to automatically re-direct bank-related consumer complaints to their respective departments.
    - Used Natural Language Processing (NLP) and Machine Learning (ML) to train a complaint classifier.
    - Deployed the ML model on pythonanywhere using Flask.

TECHNICAL SKILLS

- **Programming & Scripting Languages**: Python, C/C++, Java
- **Deep Learning Frameworks**: PyTorch
- **Others**: Andoid App Development, LaTeX, Git, Linux

RESEARCH

- **Research Interests**: Biometrics, Deep Learning, Computer Vision
- **Relevant Courses**: Deep Learning, Advanced Topics in Deep Learning, Matrix Theory, Pattern Recognition

QUALIFYING EXAMINATIONS

- **Graduate Aptitude Test in Engineering (GATE)** All India Rank: 3379. Score: 538/1000. Percentile: 96.68%. *(2021)*
- **Joint Entrance Examination (JEE) Main** All India Rank: 37245. Score: 133/360. Percentile: 96.68% *(2017)*

POSITION OF RESPONSIBILITIES

- **Teaching Assistant** for courses offered at IIT Mandi: Generative AI (CS683), Deep Learning (CS671), Data Science III (IC272), Information and Database Systems (CS309) *(Feb'23-Present)*
- **Co-presented** *"Unlocking Creativity: A Tutorial on Generative Image-AI (Text-to-Face Generation)"* at the 2023 Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP) with Dr. Aditya Nigam (IIT Mandi). *(Dec'23)*

ACHIEVEMENTS

- Awarded **Institute Gold Medal** for achieving 1st Rank in CSE Department with a CGPA of 9.59/10 *(Dec'21)*
- Secured 2nd Rank at School Level with 92.4% in Class XII *(May'17)*
- Achieved 10th Rank at District Level and 3rd Rank at School Level with 92.8% in Class X *(May'15)*