

Ankit Keshari

B.Tech Mechanical Engineering | Minor in AI & ML, NIT Delhi

+91-9868600823 | 231310005@nitdelhi.ac.in | ankitkeshari326@gmail.com | LinkedIn

SUMMARY

•Machine Learning-focused engineering student with experience in adversarial robustness, regression modeling, and uncertainty-aware data systems. Built end-to-end ML pipelines involving preprocessing, feature engineering, model training, and evaluation. Demonstrates strong system-level thinking through model comparison, risk scoring, and reliability analysis for data-driven decision systems.

EDUCATION

• B.Tech, Mechanical Engineering (Minor in Artificial Intelligence & Machine Learning)	2023 - 2027
National Institute of Technology, Delhi	CGPA: 6.60
• Senior Secondary	2021 - 2023
Khemo Devi Public School, CBSE	80.8%
• Matriculation	2019 - 2021
Cambridge Foundation School, CBSE	90.3%

EXPERIENCE

• Defence Research and Development Organisation (DRDO)	SAG, Delhi
Research Intern – Adversarial Machine Learning	May 2025 - July 2025
–Engineered black-box adversarial attack pipelines (SimBA, NES) across 8+ models on 9,000+ samples	
–Implemented transfer-based PGD attacks with norm constraints using cosine similarity for evaluation	
–Designed score-based query attack mechanisms leveraging similarity feedback for iterative generation	
–Evaluated model robustness using DeepFace embeddings and analyzed attack transferability across architectures	

PROJECTS

• ML-Based Dataset Expansion & Reliability Analysis
Python, Scikit-learn, Pandas, NumPy
–Built multi-output regression pipeline expanding dataset (26 → 625 combinations) using ensemble models
–Designed uncertainty estimation framework using model disagreement and nearest-neighbor distance
–Developed risk scoring system to classify predictions into reliable vs high-risk regions
–Engineered preprocessing and feature pipelines for structured experimental datasets
• ML Regression Framework for Structured Data
Python, Scikit-learn, Plotly
–Developed end-to-end ML pipeline including preprocessing, feature engineering, and evaluation
–Implemented Random Forest, XGBoost, and SVR models using RMSE and R^2 metrics
–Designed modular experimentation framework for consistent preprocessing and fair comparison
–Built interactive visualizations using Plotly for analyzing nonlinear model behavior

TECHNICAL SKILLS

• Languages: Java, C, Python, MATLAB
• Machine Learning: PyTorch, TensorFlow, Scikit-learn, DeepFace
• Data Tools: NumPy, Pandas
• Tools: Jupyter Notebook, Figma, Canva
• Core Concepts: Data Structures & Algorithms, Adversarial ML, Regression Modeling

POSITIONS OF RESPONSIBILITY

• Coordinator (2023 – 2025): TNP Cell, NIT Delhi – Managed database operations and outreach initiatives
• Database Sector Head (2025 – Present): TNP Cell, NIT Delhi – Led database management systems and coordinated team operations

HOBBIES & INTERESTS

•Badminton, lawn tennis, volleyball, regular fitness training, and traveling to explore new places and cultures
