# Nitin Verma

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## Education

**Indian Institute of Technology (IIT) Jodhpur**                                             2023 – 2027
B.Tech in Electrical Engineering

**Rajasthan Board of Secondary Education**                                             2019 – 2020
10th Grade – Scored **96.17%**

## Projects

**MNIST Handwritten Digit Classifier**Project Report(PDF) ⬀                     Course Group Project (2025)

- Collaborated in a 6-member team to build and evaluate multiple machine learning models for handwritten digit recognition using the MNIST dataset.
- Developed and compared 4 different ML models including Logistic Regression, Support Vector Machines,KNN,Naive Bayes, Decision Trees, and Random Forests to assess and compare performance across metrics like accuracy and F1 score.
- Handled data preprocessing tasks including normalization, missing value handling, and outlier removal to improve model robustness.
- Utilized Python libraries such as NumPy, Pandas, Matplotlib, and scikit-learn for model development, training, and visualization.
- Conducted cross-validation and hyperparameter tuning to optimize model performance.

**ManagerX – Productivity Companion**                                             Personal App (Design Stage)

- Ideating and designing a self-improvement app focused on productivity, habit-building, health reminders, daily motivation and emotional wellbeing.
- Defined key features: task management, inspirational quote feed, focus timer, habit tracking, and custom reminders.
- Planning architecture using Kotlin, Android Studio, and MVVM pattern; Firebase for backend integration.

## Technical Skills

**Languages:** C,C++, Python, Kotlin,HTML
**Tools/Technologies:** GitHub, VSCode, Android Studio, NumPy, Pandas, Jetpack Compose

## Relevant Coursework

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|---|---|
| Data Structures & Algorithms | Probability, Statistics & Stochastic Processes |
| Pattern Recognition & Machine Learning | Digital Design |
| Mathematics I (Calculus) | Mathematics II (Linear Algebra) |

## Additional Highlights

- **Solved 250+ problems on LeetCode** — strong foundation in problem-solving and DSA.
- **Cleared JEE Mains & Advanced**, with 8.6 Lakh+ and 1.5 Lakh+ candidates respectively.