

# Vansh Gupta

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## SUMMARY

I possess a strong foundation in programming languages such as C++ and Python. I am a competitive programmer and have basic experience with front-end development. Currently I am learning various aspects of artificial intelligence and machine learning to be able to contribute to real world projects. Additionally, I possess excellent problem-solving and critical thinking skills.

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## PROJECTS

### Handwritten Digit Recognition Model

June 2023 - June 2023

- Implemented a Neural Network model using TensorFlow and Keras to achieve more than 95% accuracy in digit recognition.
- Trained the model using the prepared dataset using sci-kit learn, optimizing it with the Adam optimizer and the sparse categorical cross-entropy loss function.
- Achieved excellent accuracy on the test dataset and evaluated the model's performance using accuracy metrics and Saved the trained model for future use and loading.
- Developed a script to load and process digit images from a specific directory, predict the corresponding digit using the trained model, and display the results.

### Credit Card Fraud Detection Model

June 2023 - June 2023

- Developed a model that distinguishes between legitimate and fraudulent credit card transactions.
- Addressed the challenge of imbalanced data by performing under-sampling on the majority class (normal transactions) to create a balanced dataset for training the model.
- Utilized logistic regression, a popular classification algorithm, to build the fraud detection model.

### AI Image Generator using OpenAI

October 2022 - October 2022

- Using the OpenAI API, this generator generates a picture based on an input prompt. It supports 3 different picture sizes.
- A potent tool that employs cutting-edge machine learning algorithms to generate spectacular and one-of-a-kind photographs on demand.
- This AI picture generator can generate images ranging from abstract and surreal to realistic and lifelike by using the most recent developments in deep learning.

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## EDUCATION

### Bachelor of Technology

The LNM Institute of Information Technology • Jaipur • 2025 • 7.14

### 12th Grade

Maxfort School Dwarka • Delhi • 2021 • 95.5%

### 10th Grade

Maxfort School Dwarka • Delhi • 2019 • 93.2%

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## INVOLVEMENT

### Member@Competitive Programming Domain

The LNM Institute of Information Technology • Google Developer Student Club • June 2023 - Present

- Designed and reframed contest tasks as a problem setter.

### Executive

The LNM Institute of Information Technology • Training and Placement Cell • April 2022 - Present

- Responsible for groundwork related to placement activities conducted by the cell.
- Acted as a proctor for various placement drives conducted in the year 2022-2023.
- Worked as part of a 17-person team to perform placement drives, compile interview reports, and recruit new cell members.
- Received a certificate of excellence for the academic year 2022-2023 for outstanding performance as a team member.

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## SKILLS

**Programming Languages:** C++(Expert), Python(Intermediate), Javascript(Beginner), Java(Beginner)

**Concepts :**Object Oriented Programming(Intermediate), Data Structures and Algorithms(Expert)

**Database:** MySQL(Intermediate)

**Machine Learning:**Tensorflow,Keras,Neural Networks

**Front end:** HTML(Intermediate), CSS(Intermediate), Tailwind CSS(Beginner)