

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.

SKILLS

Programming Languages: C++(Expert), Python(Intermediate)

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)

PROJECTS

Handwritten Digit Recognition Model

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 -

- 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.

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%

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.