



# Divyanshu Bansal.

✉ bansal\_divyanshu@outlook.com

in <https://www.linkedin.com/in/divyanshu-bansal04/>

🌐 <https://github.com/MistyDragon7>

## Education

- 11/22-06/26  **B. Tech, Delhi Technological University**, Mathematics and Computing;  
CGPA: 7.7 (Until 2nd Semester)
- 2022  **Apeejay School Pitampura** AISSCE/CBSE.  
Grade: 93.2%.

## Projects

**SteganentCipher:** Encoding App | [Link](#) | Python, TKinter, MySQL

Architected using Python and Tkinter, and connected to a MySQL database. Offered the following encryption methods for data for security purposes:

A simple Caesar's Cipher. Image-Based Steganography, Key-Based Encryption using Fernet Module

Can be easily integrated with a working application

**Tool for combining Images:** Image Stitching Tool | [Link](#) | Python, OpenCV

Tried to use OpenCV and RANSAC to combine images. Encountered challenges in merging more than 2 images.

**Stock-o-Meter:** Markets Stock Predictions | [Link](#) | Python, LSTM, Neural Networks

Used LSTM and Dropout layers in a Keras Sequential Model in order to predict stock prices based upon opening and closing prices.

**Tool to assist differently-abled:** Custom gestured-based Word mapping | [Link](#) | Python, OpenCV, Neural Networks

Mapped custom gestures to common words. Integrated with next-word prediction and fed the output to a chatbot. Achieved high accuracy on real-life data.

## Skills

Machine Learning Skills	Machine Learning Algorithms, Deep Learning, Neural Networks
Coding Languages	C++, Python
Frameworks and Libraries	Tensorflow, Sci-Kit, Pandas, Keras
Relevant Coursework	MATLAB, SPSS, Data Structures and Algorithms

## Miscellaneous Experience

### Awards and Achievements

- 2018-19 **National Level Finalist at Avishkar Makeathon**, Led a team which Created a Human Detection Robot to find people buried under landslide rubble. Shortlisted for finals as part of 75 teams selected nationwide. Funded by NITI Aayog.
- 2023 **IIIT Delhi Esya '23 Participation**, Participated in HackCOG, and built a hand-gesture to words converter using mediapipe and neural networks for assisting those unable to speak.

### Certification

**Machine Learning Specialisation.** Awarded by DeepLearning.AI.

## Societies and Clubs

- 2022-23 **Co-Head at AIMS-DTU.** Guiding 80 odd students into the field of AI and ML such that all of us grow together.
- Member at IGTS-DTU** Learnt about Game Theory, and wrote a Medium article on Game Theory in Football Transfer Markets.
- Head of Machine Learning at MACS-DTU** Helped bring in 2 sponsors to the society, and assisted in 3 organising events for the technical fests of DTU. Guided newcomers into the field.