

Tushar Mishra

Email: tusharmishra802@gmail.com

Website: <https://tmwork.vercel.app/>

Github: <https://github.com/TM23-sanji>

X: <https://x.com/tm23twl>



I'm a Sagittarian at heart—naturally optimistic, intellectually curious, and deeply committed to my passions. Always eager to explore new ideas and experiences.

A proud achievement of mine is ranking in the top 1% out of 1.1 million candidates. Just a dedicated self-learner who is constantly pushing the boundaries of what he can create and understand.

Experience

→ Vidya Plus (freelance)

- Implemented new features like online payment, video lectures & authorization.

Education

CSE, Bhabha Eng. & Research Institute (2023 - 2027)

Bachelor of Technology in Computer Science and Engineering

Projects

→ **English to Spanish Translator (recently build)**

- Built encoder-decoder architecture with Attention and LSTM cells on raw parallel data.
- Implemented training pipeline in TensorFlow from scratch, avoiding high-level libraries.

→ **IMDB Review Sentiment Analysis (Aug 2025)**

- Trained embeddings + masking + functional API to classify reviews.
- Evaluated performance on custom test splits to check robustness.

→ **Time Series Forecasting (Chicago Transit Data, Aug 2025)**

- Designed LSTM-based forecasting model to predict the number of passengers that will ride on bus and rail the next (or n) day.
- Experimented with sliding-window inputs and multi-step predictions.

→ **Reinforcement Learning – OpenAI Gym Environments (recently build)**

- Implemented policy-gradient RL models for Pole Balancing & Lunar Lander.

- Explored stability and hyperparameter tuning in low-reward environments.
- **Generating Shakespeare text (Aug 2025)**
 - Built character-level RNN for text generation, predicting next characters sequentially.
- **Anonymous Messaging App (Web)**
 - Simple app with total anonymity of users, encrypted messages that will be automatically deleted within 24hrs.

Technical skills

- **ml** : tensorflow, scikit-learn, pyTorch (in progress), numPy, pandas, matplotlib, openCV
- **programming & data** : python, rust, rest & fastAPIs, prisma, postgresSQL, mongoDB, redis, zod
- **frontend** : next.js, react, typeScript, tailwindCSS
- **bonus** : docker, figma, GSAP