**Tanishq Kolhatkar**

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# Technical Skills

**Languages** : C, C++, Python, R,SQL

**Technologies and Tools**: Machine learning, Data analysis, Git, GitHub,HTML, CSS

# Certifications

**Applied Machine Learning** (Coursera) [Coursera Certification](https://coursera.org/share/966506ed4b5bf019b4d5750da17750d0)

**Postman API** Fundamental Student Expert (Postman) 🔗 [Badge Certification](https://api.badgr.io/public/assertions/KR-OIyfjQIurIw5VO_NGKQ?identity__email=tanishq.kolhatkar2021%40vitbhopal.ac.in)

# Education

**Vellore Institute of Technology, Bhopal September 2021 - Ongoing**

*Integrated MTECH Computer Science (Artificial Intelligence),* ***8.3/10*** *Bhopal, MadhyaPradesh*

## Balaghat English School , Balaghat May 2021

*CBSE 12th STD,* ***85.4%*** *Balaghat, MadhyaPradesh*

## Balaghat English School , Balaghat May 2019

*CBSE 10th STD,* ***90.2%*** *Balaghat, MadhyaPradesh*

# Experience

**Omdena Kutch Chapter | Water Quality Monitoring Kutch Region December 2024 – January 2025**

*Junior ML Engineer Remote*

* *Utilized Google Earth Engine for satellite-based water quality monitoring in the Kutch region.*
* *Analyzed remote sensing data to assess parameters like turbidity, chlorophyll, and suspended sediments.*
* *Developed machine learning models to predict water quality trends using satellite imagery.*
* *Automated data processing pipelines for large-scale geospatial analysis.*
* *Contributed to an Omdena initiative, collaborating with experts in environmental sustainability.🔗* [*GitHub Repository*](https://github.com/tanishqkolhatkar93/omdena-kutch-India-water-qality-monitoring-)

# Projects

**Soil Moisture Prediction using Remote Sensing Satellite Data** *| Python (LSTM, GRU, Bi-LSTM), Scikit-learn* **June 2024– September 2024**

* Developed machine learning models (LSTM with 80% accuracy) for predicting soil moisture using satellite data.
* Cleaned, pre-processed, and transformed raw satellite data for training predictive models.
* Evaluated model performance using metrics like accuracy and mean squared error (MSE).
* Visualized data trends and insights using Matplotlib and Seaborn. [Github Link ](https://github.com/tanishqkolhatkar93/Soil_Moisture_Prediction) [Web Link](https://medistats-1yhm.onrender.com/)

**Crypto Price Prediction** *|**Python, Pandas, NumPy, TensorFlow, Crypto API* **October 2022 – January 2023**

* Developed a deep learning-based system to predict cryptocurrency prices using historical data and LSTM neural networks.
* Automated data collection from a cryptocurrency price API, handling API timeouts and ensuring robust data ingestion.
* Cleaned and preprocessed time-series data with Pandas and NumPy, including normalization and sequence generation for model input.
* Designed, trained, and evaluated an LSTM model using TensorFlow/Keras, achieving accurate price predictions and visualizing results.
* Implemented comprehensive error handling and modular code for seamless integration and reproducibility. [Github Link](https://github.com/tanishqkolhatkar93/Movie-Recommender-System)

# Extra-Curricular/Achievement

# Prime Author at TheCyberDelta – Published 15+ research articles on cybersecurity ,artificial intelligence, blockchain and latest technology.

* Campus Ambassador at IMUN, promoting global leadership programs.
* Top 10% Contributor at GSSOC 2024, enhancing 5+ open-source projects.
* Published Patent on IOT based Self Cleaning Glass Case System