**Tanishq Kolhatkar**

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# 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*

# Technical Skills



* Programming Languages: Python, R, SQL, C, C++
* ML/DL Frameworks: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy
* Data & Analytics: Predictive Modeling, Data Cleaning, EDA, Time-Series Analysis
* Tools & Platforms: Git, GitHub, Docker, AWS , Power BI, Postman , Fast API , Jenkins
* Emerging Technologies: Large Language Models (LLMs), RAG Systems, Fine-tuning, Prompt Engineering, Vector databases

# Projects

**Soil Moisture Prediction Using Remote Sensing Satellite Data** *|(LSTM, GRU, Bi-LSTM), Scikit-learn* **June 2024-September2024**

* 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)

**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 .
* Designed, trained, and evaluated an LSTM model using TensorFlow/Keras, achieving accurate price predictions and visualizing results.[Github Link](https://github.com/tanishqkolhatkar93/Crypto-Price-Prediction)

# Experience

**Omdena Kutch** |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.*
* Collaborated with a global team of experts as part of an Omdena initiative on environmental sustainability.*🔗* [*GitHub Repository*](https://github.com/tanishqkolhatkar93/omdena-kutch-India-water-qality-monitoring-)

# Certifications

* Applied Machine Learning(Coursera) [Coursera Certification](https://coursera.org/share/966506ed4b5bf019b4d5750da17750d0)
* Postman APIFundamental Student Expert (Postman) 🔗 [Badge Certification](https://api.badgr.io/public/assertions/KR-OIyfjQIurIw5VO_NGKQ?identity__email=tanishq.kolhatkar2021%40vitbhopal.ac.in)

# Extra-Curricular/Achievement

* Prime Author at TheCyberDelta – Published 15+ research articles on 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.