

Kunal Latkar

+91 9607095223 · kunallatkar04@gmail.com · [LinkedIn](#) · [GitHub](#) · [Website](#)

EDUCATION

MIT World Peace University | Pune, Maharashtra — Undergraduate

June 2026

B.Tech. in Computer Science and Engineering (Artificial Intelligence and Data Science) | 8.01

Relevant Courses: Fundamental Programming, Fundamentals of Data Structure, Database Management, Advanced Data Structure, Operating System, Machine Learning, Cognitive Computing & Natural Language Processing, Python Programming, Data Engineering Concepts, Artificial Intelligence and Expert System.

SKILLS

Programming Language:

C, C++, Python, HTML, CSS, R

Database

Management:
MySQL, MongoDB

Libraries:

Pandas, Firebase, TensorFlow, Matplotlib, Streamlit, Tkinter, Scikit-learn

Tools & Frameworks:

Tableau, PowerBI, Flask

PROJECTS

Water Quality Contamination Prediction

June 2025

Machine Learning

- Utilized the Scikit-learn library in Python and cuML from NVIDIA for accelerated model training.
- Preprocessed government-sourced data and generated target labels based on WHO/CPCB guidelines.
- Trained and evaluated models like Logistic Regression, XGBoost, AdaBoost, and Random Forest.

Image Captioning System

May 2025

Deep Learning / Computer Vision

- We created a custom dataset containing images of MIT-WPU, which we captioned.
- We developed our captioning model, combining CNN + Bidirectional LSTM
- We used techniques like regularization, noise augmentation, and learning rate scheduling

Bottle Inspection System

May 2025

Computer Vision

- Designed a module to verify proper cap and label placement.
- Implemented module for image processing to assess juice levels within the bottles and count the bottles
- Integrated all components into a unified end-to-end factory inspection system.

Automatic Question Generating system

October 2024

Natural Language Processing

- We used Bart and T5 pretrained models to generate ranked questions based on the input by the user.
 - User can give pdf, Image or normal text as a input.
 - We used two publicly available datasets Squad, and Sciq
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CO - CURRICULAR ACTIVITIES AND ACHIEVMENTS

Google Developer Student Club MIT-WPU

Dec 2023 - Sep 2024

Technical Team Member

Career development Club

Sept 2024 - present

Member of Higher Study Department

HackMIT-WPU 2025 - Ideathon

Mar 2025

Appreciation Certificate (Third)