Kunal Latkar

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Education

MIT World Peace University, Pune — B.Tech in CSE (AI & Data Science) Oct 2022 – 2026
CGPA: 8.08 / 10

- **Relevant Courses**: Machine Learning, Natural Language Processing and Cognitive Computing, Tools for Data Science, Operating Systems, Database Management System, Deep Learning

Technologies

Languages: Python, R, C, C++, HTML, CSS, JavaScript

Analytics Libraries Frameworks: Pandas, Scikit-learn, TensorFlow, Matplotlib

Databases: MySQL, MongoDB

Visualization / Tools: Power BI, Tableau, Git, Firebase

Experience

Python Developer Intern, Futura Apsol Pvt Ltd July 2025 – Jan 2026

- Designed a real-time defect detection solution using CNN and YOLO, improving quality control analytics.
- Developed a PyQt dashboard for actionable insights to assist operational decisions.
- Optimized inference pipeline performance for production deployment.
- Gained hands-on experience with MLflow and MLOps pipelines for model tracking, versioning, and deployment.

Projects

Water Quality Classification Predictive Analytics Project

- Developed machine learning models **achieving over 95%+ accuracy** for water contamination Classification.
- Delivered insights through data visualization aligned with WHO/CPCB guidelines.
- Concepts: Random Forest, XGBoost, AdaBoost, NVIDIA cuML, scikit-learn, Pandas, Matplotlib.
- GitHub: https://github.com/KunalLatkar/Water-Quality-Contamination-Classification

Image Captioning System CV and DL Project

- **Built CNN + BiLSTM** model to generate image captions on **MIT-WPU campus dataset**.
- Improved model robustness with augmentation, regularization, and tuning techniques.
- Concepts: TensorFlow, Keras, CNN, LSTM, Image processing.
- GitHub: https://github.com/KunalLatkar/Image-Captioning-System

Automatic Question Generator NLP Project

- Developed a question generation tool **using T5 and BART transformers** for educational applications.
- Integrated OCR for flexible input and fine-tuned models on SQuAD and SciQ datasets.
- Concepts: TensorFlow, T5, BART, Binary Cross-Entropy, Categorical Cross entropy, Streamlit.
- GitHub: https://github.com/KunalLatkar/ISSAK

Achievements and Activities

- **Secured 3rd place in HackMIT-WPU 2025 Ideathon** for analytics-driven innovation.
- **Top 150 in Amazon ML Hackathon** for object dimension detection from images.
- Technical Team Member at **Google Developer Student Club**, MIT-WPU.
- Member of **Career Development Club** and Higher Studies Cell.