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

Technologies

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

Libraries: Scikit-learn, TensorFlow, Pandas, cuML, MLflow, OpenCV, PyQt, Streamlit, Matplotlib.

Data & Databases: MySQL, MongoDB, Power BI, Tableau

Systems & Tools: Linux/Unix, Git, GitHub, Firebase

Experience

Python Developer Intern, Futura Apsol Pvt Ltd July 2025 – Jan 2026
- Designed a real-time color sequence detection solution using YOLO, improving quality control analytics.
- Created a PyQt dashboard for visual insights and quick decisions.
- Deployed models on Raspberry Pi 5 + Hailo-8L (Linux) for edge performance.
- Worked with MLflow and MLOps for model tracking 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

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

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

Achievements and Activities

- **Secured 3rd place in HackMIT-WPU 2025 Ideathon** for analytics-driven innovation.
- Completed the **AWS Generative AI for Developers (Certified Course)** by Amazon Web Services, covering foundational and practical applications of Generative AI using Amazon Bedrock.
- Technical Team Member at **Google Developer Student Club**, MIT-WPU.
- Member of **Career Development Club** and Higher Studies Cell.