Anurag Tiwari

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Education

Noida Institute of Engineering and Technology — Greater Noida, Uttar Pradesh
Bachelor of Technology in Computer Science, specialization in Artificial Intelligence — *Nov. 2022 – July 2026*

Experience

AI/ML Developer — July 2024 – present
NIET Gr. Noida

- Designed and implemented an AI-Assisted Medical Image Analysis System to detect pneumonia using X-ray images, achieving 89% prediction accuracy.
- Utilized TensorFlow and Python to build and train a deep learning model for medical diagnostics.
- Deployed the system on Vultr Cloud using Flask, enabling real-time image analysis and user-friendly predictions.
- Addressed challenges in preprocessing medical image data, ensuring high-quality outputs for diagnostic reliability.
- Secured **35th position globally in the Vultr Cloud Hackathon** by showcasing the innovative application of AI in healthcare.

AI/ML Intern — July 2023 – August 2023
Skill Intern India

- Developed an Image Color Detection Tool using Python and OpenCV, boosting user efficiency by 40%.
- Led a team to identify and address challenges, ensuring industry compliance and technical accuracy.
- Enhanced the tool's usability through effective visualization techniques.

Application Developer — August 2022 – October 2022
Prodigy Infotech

- Designed and developed a QR Scanner Application using Kotlin and Gradle, achieving 20% higher efficiency than existing solutions.
- Collaborated with cross-functional teams to integrate secure and optimized QR code processing functionalities.
- Conducted testing and debugging to ensure reliability across diverse use cases.

Projects

AI Medical Image Analysis | ***Python, TensorFlow, Flask, Cloud*** — Sep 2024 – Present

- Designed and implemented a machine learning model using TensorFlow to detect pneumonia in X-ray images with an Accuracy of 89 percent.
- Deployed the model on Vultr Cloud using Flask, enabling real-time predictions.
- Resolved challenges in medical image preprocessing, ensuring precise healthcare diagnostics .

Image Color Detection Tool | *Python, OpenCV* — June 2023 – June 2024

- Developed a Python-based tool utilizing OpenCV to detect dominant colors in images, improving user efficiency by 40%.
- Created visualizations for color patterns to streamline workflows for designers and photographers.

QR Scanner Application | *Kotlin, Gradle* — June 2023 – August 2023

- Engineered a QR code scanner using Kotlin and Gradle, achieving 20% higher efficiency than existing solutions.
- Focused on user-friendly design and high-speed corrections for daily use.

Technical Skills

Languages: Java, Python, Kotlin
Frameworks: Flask, FastAPI
Developer Tools: Git, GitHub, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ
Libraries: pandas, NumPy, Matplotlib, Scikit-learn, PyTorch, TensorFlow