

# Aman Chaturvedi

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## EDUCATION

### Acropolis Institute of Research and Technology

Bachelor of Information Technology

Indore, India

Aug. 2021 – May 2025

## EXPERIENCE

### Software Developer Intern

Feb. 2024 – Nov. 2024

Quant Scientist

Remote

- Developed **InterxTV**, a video streaming platform with embedded quizzes and gamified features to boost user retention.
- Enhanced series creation with real-time analytics, progress tracking, and advanced content management for paid/free content.
- Integrated AI-powered accessibility tools, including speech-to-text and sign-language interpreters, increasing inclusivity by 30%.
- Automated H5P workflows using Python and UI Path, cutting manual video production effort by 80%.
- Worked with cross-functional teams to deliver scalable, user-focused solutions under tight deadlines.

### Freelance Software Developer

Dec. 2024 – Feb. 2025

AI Gym Tool Project

Remote

- Created an **AI Gym Tool** to track exercise form, provide personalized diet plans, and generate workout routines based on user needs.
- Utilized computer vision and machine learning to analyze real-time exercise form, improving accuracy by 25%.
- Designed a scalable backend with Python and MongoDB to process user data and deliver tailored fitness recommendations.
- Developed a user-friendly React frontend for seamless interaction and real-time feedback.

## PROJECTS

### AI Image Detector | Python, Flask, TensorFlow, React

2024

- Built an AI-powered image detection system to identify images from diffusion models like Stable Diffusion and DALL-E.
- Applied residual noise analysis and frequency-domain methods (Fourier/Wavelet transforms) to detect subtle artifacts.
- Trained Vision Transformer (ViT) and ResNet models, achieving 90%+ accuracy across diverse datasets.
- Used ensemble learning to strengthen detection against adversarial attacks and new generative models.

### Resume Generator for Targeted Companies | Python, FastAPI, React, OpenAI API, NLP

2024

- Developed an AI-driven resume generator supporting 15k concurrent users, customizing resumes for specific company needs.
- Leveraged NLP to extract and prioritize job description keywords for tailored resume content.
- Built a high-performance FastAPI backend and React frontend for uploading resumes and delivering personalized suggestions.

### Automation Portfolio | Python, Selenium, BeautifulSoup, UI Path

2024

- Created web scraping tools with Selenium and BeautifulSoup to automate data extraction from e-commerce and job sites.
- Implemented UI Path workflows to automate repetitive tasks, boosting efficiency by 50%.

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript, HTML, CSS, React, Node.js

**Libraries:** Flask, FastAPI, Django, PyTorch, Scikit-learn

**Databases:** MongoDB, MySQL

**Development Tools:** Git, UI Path, Selenium, BeautifulSoup