

ADITYA SHUKLA

Bhopal | [+91-7477220200](tel:+91-7477220200) | adityashukla1414@gmail.com | [LinkedIn](#) | [Github](#)

EDUCATION

VIT Bhopal University	2022 - Present
B. Tech. (Computer Science Engineering)	8.67 CGPA

TECHNICAL SKILLS

Languages: Python, Java, JavaScript | **Web:** HTML, CSS, React.JS, Express.JS (Node.JS)

DB: SQL, MySQL, PostgreSQL | **Tools:** AWS, GitHub, MS Office suite

PROJECTS

Advance Code Evaluator	(July 2025 - September 2025)
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Custom trained agentic AI model for Code Evaluation

- Developed a full-stack, microservices-based code evaluation platform using React.js, Next.js, TypeScript, Tailwind CSS, Node.js, and Express.js with REST APIs, async processing, middleware, and security features (input sanitization, file validation, CORS, rate limiting).
- Integrated Google Gemini AI to power a 100-point, 6-criteria scoring engine with automated grading, detailed AI-generated feedback, and intelligent code analysis across multiple languages.
- Implemented multi-algorithm plagiarism detection (text, structural, token-based) with 71%+ accuracy and bulk processing for 100+ files simultaneously, optimized with caching and memory management.
- Delivered enterprise-ready features including 6 REST endpoints, support for 10+ programming languages (Python, Java, C++, C#, PHP, Ruby, Go, Rust, etc.), CSV export with grade conversion, and analytics to reduce faculty grading time and enhance learning outcomes.

Optical Character Recognition (OCR) Module	(March 2025 - May 2025)
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Real-Time Text Extraction

- Developed a real-time OCR system in Python utilizing **Pytesseract**, **OpenCV**, and **Pillow** for efficient text extraction from images and video streams.
- Implemented advanced preprocessing techniques—grayscale conversion, thresholding, edge detection—to improve text detection accuracy.
- Automated noise detection and removal (Gaussian/impulse), ensuring robust performance on low-quality or noisy input images.

CERTIFICATIONS

Oracle AI Vector Search Professional (1Z0-184-25)

AWS Cloud Practitioner (CLF-C02)

Oracle OCI Data Science Professional (1Z0-1110-25)

EXTRA-CURRICULAR

Tech Lead (Android Club)	October 2022 - September 2024
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- Led cross-functional teams and coordinated logistics for a 200+ participant coding event, demonstrating strong leadership, time management, and the ability to deliver under pressure.
- Enabled smooth execution of a multi-session club event by proactively managing technical operations and backstage coordination, showcasing adaptability, clear communication, and problem-solving in real-time.