Aditya Vikram Singh

+91 9112579002 | iamavs2002@gmail.com | linkedin.com/in/aditya | github.com/eluzaa | www.adityavikramsingh.com

EDUCATION

PES University <div align="right">Bangalore</div>
B.Tech in Computer Science <div align="right">*2021 – 2025*</div>

EXPERIENCE

Software Developer <div align="right">Aug. 2023 – Oct. 2023</div>
EKCS <div align="right">*Milford, Connecticut, United States (Remote)*</div>
- Designed and deployed a custom RAG microservice supporting 1,000 daily users, incorporating multilevel webhooks, dual data pipelines, and an auto-validation system, boosting operational efficiency by 30%.
- Developed a text splitter that processes JSON files and extracts metadata, enhancing document processing accuracy by 40%.
- Implemented a cron job and managed deployments using Google App Script, optimizing system operations and increasing efficiency by 30%.

Python (AI/ML) and Web-Dev Specialist <div align="right">Apr. 2023 – Sep. 2024</div>
CodingZen <div align="right">*New Delhi (Remote)*</div>
- Guided industry professionals in transitioning from Django to MERN, achieving a 20% performance improvement.
- Created question sets for an international hackathon and supported deployment and management teams, leading to a 15% increase in event participation.

Augmented and Virtual Reality Developer <div align="right">Nov. 2023 – Present</div>
Google Developer Student Club <div align="right">*PES University, Bangalore (On-site)*</div>
- Led the AR-VR department, fostering innovation and collaboration within a team of 12 members, and inspired students to explore and excel in cutting-edge technology.
- Increased open-source project participation by 40% through GitHub training and promotion.
- Directed a team to create an AR navigation system for tech parks, improving navigation efficiency by 50%.
- adityagdsc.com

PROJECTS

Image Forgery Detection using Explainable AI (XAI) | *Python, Keras, ResNet*
- Developed a robust system utilizing advanced ML techniques, specifically CNNs, to identify and explain instances of image tampering. Integrated frameworks such as TensorFlow and Keras to train models on diverse datasets, achieving detection accuracy of over 95%.
- Enhanced the reliability of digital media by addressing critical concerns in forensic analysis, journalism, and social media verification. Provided transparent and interpretable results, significantly improving the trustworthiness of digital content.

Computer-Based Online Test System | *HTML, CSS, MERN Stack*
- Engineered a robust CBT website that streamlined the examination process for educational institutions; modifications led to positive feedback from 95% of students.
- QuizApp.vercel.app

Flight Search Engine | *Amadeus, Python, Streamlit, Requests*
- Developed a real-time flight search engine using Amadeus API, Streamlit, and Python, facilitating efficient searches for flights from over 250 airlines. Helped to deliver cheapest flight in industry by integrating Skyscanner API
- Integrated advanced filtering and data parsing capabilities, achieving over 95% accuracy in presenting optimized flight options based on user preferences, including price, time, and duration

College WiFi Login Automation | *Selenium, Chrome/Edge Web-Drivers, time*
- Devised a script to automate the college WiFi login process, reducing login time by 90%. Enhanced the script with brute-force functionality for ethical use.

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, SQL, MongoDB, HTML/CSS
Frameworks: React, Node.js, Flask, GenAI
Developer Tools: Git, GitHub, Google Cloud Platform, VS Code, AWS, Docker, Jira