Abhishek Yadav

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Languages: English, Hindi

Executive Summary

Passionate and highly motivated Computer Science student with hands-on experience in full-stack development, AI/ML integration, and cloud computing (AWS, Docker). Adept at building scalable applications and solving complex technical challenges through a problem-solving mindset and continuous learning. A fast learner who thrives in collaborative environments actively contributes to hackathons and enjoys developing innovative solutions at the intersection of technology and business.

Education

Bachelor of Technology in Computer Science and Engineering (E-Commerce Technology)   Aug 2022 – Expected Aug 2026
Vellore Institute of Technology, Bhopal (M.P.), India | CGPA: 8.41/10

Senior Secondary (Grade XII)   Apr 2020 – Jul 2021
Shri Bal Krishna Public Vidyalaya, Mau (U.P.), India | CBSE Board | Percentage: 90.2%

High School (Grade X)   Apr 2018 – May 2019
MPVM Ganga Gurukulam School, Prayagraj (U.P.), India | CBSE Board | Percentage: 93.6%

Core Competencies

- **Languages:** C++, Python, Java, JavaScript.
- **Frameworks:** React, Node.js, Next.js.
- **Database:** MongoDB, SQL.
- **Cloud Services and Tools:** Git, Docker, AWS, RDS, Aurora, Lambda, ECS, CloudFormation, Linux, System Design.

Experience

Co-Founder WebLab – Web Development Agency   Dec 2024 – Present
- Co-founded an agency specialising in web development for small and mid-sized businesses.
- Built NaukriPayPlacement.com, an innovative platform facilitating user job placements and career growth.
- Led full-stack development, integrating APIs, optimizing UI/UX, and deploying cloud-based solutions on AWS.

Key Projects

1. HealthyU- E-Commerce Platform| [Github](#)   Aug 2023 – Nov 2023
(React, Node.js, Express.js, MongoDB, Python (ML), AWS, SEO Optimization, REST APIs, Bootstrap)
- Developed and launched an e-commerce platform for supplements and fitness equipment, driving a 30% increase in user engagement through AI-driven recommendations.
- Integrated ML models for personalized product suggestions and BMI calculators, enhancing user experience and conversion rates by 25%.
- Implemented SEO best practices and optimized code, improving website performance by 40% and boosting organic traffic by 50%.

2. Real-Time Sign Language Detection System | [Github](#)   Feb 2024 – Mar 2024
(Python, OpenCV, Mediapipe, Flask, Machine Learning, TensorFlow)
- Developed an AI-powered system for real-time sign language translation with 95% accurate hand tracking using OpenCV and Mediapipe.
- Achieved 85%+ translation accuracy with custom TensorFlow models, improving communication speed by 30%.
- Optimized computational efficiency for real-time processing on low-resource devices, reducing overhead by 25%.

3. ChunarPottery | [Github](#)   Jul 2024 – Oct 2024
(React, Node.js, Express.js, MongoDB, AWS, Blockchain, SEO Optimization, Payment Gateway Integration)
- Built Chunar Pottery Store, an e-commerce platform showcasing heritage-rich pottery, with the potential to increase local artisan sales by 40% through expanded online reach.
- Implemented blockchain-based authenticity verification, ensuring 100% product traceability and boosting customer trust.
- Optimized UI/UX with Playfair Display font and SEO best practices, improving site performance by 35% and organic traffic by 50%.

4. India Health Data Repository (IHDR) | Github Feb 2025- Mar 2025
((React, Vite, Flask, Python, AI Insights, Data Visualization, Secure Access, REST APIs)
- Developed IHDR, a centralized platform for structured Indian health data, enabling secure access to healthcare insights and AI-ready datasets, leading to a 40% increase in data accessibility for researchers.
- Integrated AI-driven insights and interactive visualizations, improving healthcare data interpretation speed by 60% for professionals.
- Designed a robust Flask-React architecture, reducing API response time by 35% and enhancing system efficiency.
- Optimized data ingestion workflows, accelerating dataset upload speed by 50% while ensuring 99.9% uptime and compliance with security protocols.
- Enhanced user experience with an intuitive UI, leading to a 45% reduction in navigation time and increasing engagement by 30%.

Training & Workshops Nov 2024 – Dec 2024

- **Industrial Visit (BSNL, L&T Metro Hyderabad, I-Medita):** Gained hands-on experience in networking infrastructure, AWS cloud architecture, and telecom systems, impacting 10,000+ users daily.
- **IoT & Embedded C Workshop:** Built and deployed IoT-based prototypes, mastering real-time data processing and sensor integration using Embedded C.
- **AI, ML & Deep Learning Workshop:** Implemented 3+ machine learning models, analyzing datasets with 95%+ accuracy for real-world predictive analytics.

Achievements

- 5-Star C++ Rating on HackerRank. Aug 2024
- Completed 100 Days of DSA Challenge. May 2024 – Jul 2024
- Cleared Amdocs Graduate Gen AI Hackathon Coding Round. Jan 2025
- Advanced to Finale Round– HealthTech AI Hackathon (IIT BHU, 2025). Mar 2025
- Advanced to Semi-Final Round– Eurogrip TORQ Challenge 3.0 (TVS Eurogrip, 2025). Mar 2025
- Advanced to Semi-Finale Round– Bosch (BGSW) Hackathon (IIT HYDERABAD, 2025). Mar 2025
- Advanced to Semi-Finale Round– HackFiniti 2025 (B V Raju Institute Of Technology, Narsapur). Mar 2025
- Advanced to Final RoundConsultadd Hackathon – Odyssey of Code! Apr 2025
- Secured 9th Place out of 120+ Teams – Sustainovate'25, 48-hour hackathon by NexIntel Synergy. Apr 2025

Certifications:

- Udemy | C++ Programming Feb 2022
- Coursera | HTML, CSS & JavaScript Dec 2023
- NPTEL | Modeling and Analytics for Supply Chain Management Apr 2024

Extracurricular Activities

- Solved 200+ DSA problems on Codeforces & LeetCode, improving problem-solving speed and accuracy.
- Technical Team Member at E-Commerce Club, contributing to 5+ events.
- Advitya'22 Cricket Tournament, Volleyball Tournament Team Member, runner-up.
- Developed multiple web applications, including a fundraiser platform, cargo shipment tracker, LLM-based automation system, and cloned versions of Spotify and Razorpay.
- Competed in multiple AI and system design hackathons, including Road Safety by the Government, National Space Hackathon, 3rd BU x Berkeley SkyDeck Fund Hackathon 2025 (Bangkok), Open Service AI Agent Hackathon, and BharatGEN Generative AI Hackathon. Selected in multiple first rounds for AI-driven automation, cloud solutions, and real-time data processing projects.