

Abhinav Chauhan

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Education

VIT Bhopal University | Oct 2022 - May 2026

Bachelor of Technology in Computer Science and Engineering | Bhopal, MP

Coursework: Data Structures & Algorithms (DSA), Machine Learning (ML), Software Engineering, Computer Networks, DBMS

The Aryan School, Dehradun | April 2020 - July 2021 | Higher Secondary (XII) - 89.25%

B.B.L. Public School, Bareilly | April 2018 - April 2019 | Higher School (X) - 77%

Technical Skills

Languages: Python, C++, Java, JavaScript, HTML5, CSS3, SQL, MATLAB

Frameworks/Libraries: React.js, Node.js, TensorFlow, scikit-learn, OpenCV, NumPy, Pandas, Bootstrap

Databases/Cloud: MongoDB, MySQL, PostgreSQL, AWS, Google Cloud Platform (GCP), Firebase **Tools/**

DevOps: Git, GitHub, Docker, Linux, Jenkins, CI/CD, Agile, Visual Studio Code

AI/ML: Computer Vision, Deep Learning, Neural Networks, YOLOv8, Data Analysis, Predictive Modeling

Concepts: OOP, DSA, SDLC, RESTful APIs, Microservices, System Design, Test Automation

Projects

Lung Cancer Detection Model Using Machine Learning

- Architected ML model using Python, TensorFlow, scikit-learn achieving 92% accuracy on 10,000+ medical imaging samples
- Engineered computer vision pipeline reducing training time 40%, enhancing diagnostic precision 35% over baseline
- Collaborated with healthcare professionals, validated 95% reliability using cross-validation in clinical testing

Real-Time Vehicle Detection System Using YOLOv8 and OpenCV

- Developed vehicle detection system using YOLOv8, OpenCV achieving 95% accuracy, 30+ FPS on 5,000+ frames
- Optimized CV pipeline with NMS algorithms, improved detection speed 50%, reduced false positives 25%
- Integrated with traffic infrastructure using RESTful APIs, contributed 25% improvement in flow analysis

Work Experience

Intern Executive | SKODA | September 2024 - December 2024 [Certificate](#)

- Implemented automated testing frameworks improving test coverage 30%, reducing manual testing time 50%
- Executed VIN-based diagnostic procedures, resolved 15+ critical issues achieving 98% diagnostic accuracy
- Collaborated with 8+ engineers streamlining processes 40%, ensuring 100% automotive compliance

Customer Relations & Operations Assistant | Shyam Car Care | Jun 2019 - Mar 2021

- Managed 200+ client relationships maintaining 95% satisfaction, supervised 50+ vehicles weekly operations
- Optimized workflows achieving 25% efficiency improvement, reduced wait times 20% through analysis
- Coordinated technical resolutions achieving 98% first-call rate, improved service quality 30%

Extracurricular Activities & Achievements

Education Volunteer | Sardar Vallabhbhai Patel Trust | Aug 2021 | 40+ hours impacting 50+ children, 15% literacy improvement

Certifications & Academic Recognitions

- IBM Full Stack Software Development (Coursera) 2024 [Certificate](#) | 98% completion • ML in Python - Univ. of Michigan 2024 | 95% grade [Certificate](#)
- UNSW Australia Science Credit 2023 [Certificate](#) • UNSW Australia Mathematics Credit 2023 [Certificate](#)