

# Abhinav Chauhan

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## Education

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**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)

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

## Technical Skills

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**Languages:** Python, C++, JavaScript, SQL

**Frameworks/Libraries:** React.js, Node.js, scikit-learn, OpenCV, NumPy

**Databases/Cloud:** MongoDB, MySQL, PostgreSQL, AWS

**DevOps:** Git, GitHub, Linux, Agile, Visual Studio Code

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

**Concepts:** OOP, DSA, RESTful APIs, System Design, Test Automation

## Projects

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### **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 OpenCV**

- Developed vehicle detection system using 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

### **ParkNavi - Smart Parking Management Solution**

- Pioneered PARKNAVI, a smart parking agent, integrating realtime space availability, navigation, and automated payments; decreased user search time by 40% and increased parking efficiency by 25%.
- Optimized parking operations by integrating advanced algorithms and real-time sensor data for accurate space detection and instant user notifications.

## Work Experience

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### **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

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

## Certifications & Academic Recognitions

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