

# Prafful Bisht

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## EDUCATION

### SRM University

*Bachelor of Technology, Computer Science with Specialization in AI/ML*

GPA: 9.50

Modinagar, Delhi-NCR

*Sep. 2021 – June 2025*

### DAV School

*Higher Education*

Paonta Sahib, Himachal Pradesh

*2020 – 2021*

## EXPERIENCE

### AI Engineer

*ResoluteAi*

Aug 2024 – Present

*Remote*

- Boosted AI performance by 25% using deep learning models for predictive analytics, improving forecasting accuracy and decision-making capabilities.
- Optimized machine learning algorithms, including CNNs and YOLO, to reduce processing time by 40% for real-time computer vision tasks, increasing detection accuracy to 95%.
- Formulated and applied AI solutions and prototypes for clients, incorporating interactive dashboards and advanced data analysis tools, leading to a 30% increase in data-driven insights.

## PROJECTS

### ML-Based NutriScore Analysis | Pandas, Tesseract, NumPy, Random Forest Regression

July 2024 – Sep 2024

- Led preprocessing techniques that improved text clarity on nutritional labels by 30%.
- Implemented OCR and NLP models to extract and analyze nutritional data from product labels with 95% accuracy.
- Analyzed over 10,000 food items from the OpenFoodFacts database, delivering insights that improved product nutritional value by 15%.

### Automated Conveyor Glass Bottle Detection | Python, YOLOv5, OpenCV

June 2024 – July 2024

- Trained a YOLOv5 model on custom-labeled data to detect glass bottles on a conveyor belt, achieving 92% detection accuracy after optimization.
- Applied OpenCV techniques to capture real-time video streams and identify bottles with high precision.
- Enhanced system efficiency by 92%, processing up to 500 bottles per hour.

### Computer Vision Web Applications | OpenCV, MediaPipe, Flask, Pycaw, Python

May 2024 – June 2024

- Engineered hand-gesture-based volume control and virtual paint brush web apps, reducing system interaction time by 40%.
- Mapped hand gestures to system functions, including AI-driven digital drawing, achieving 98% accuracy in gesture recognition and seamless real-time control for creating artwork.
- Optimized user interface for responsiveness, improving interaction speed by 25%, and ensuring real-time feedback.

### Celebrity Face Recognition System | OpenCV, LBPH, Haar Cascades

Mar 2024 – Apr 2024

- Developed a robust AI facial recognition model using 5,000+ celebrity images, reducing image processing time by 40% and boosting user engagement by 25%.
- Automated labeling, reducing manual tagging by 70%.
- Gained experience in integrating face recognition technologies for real-world applications in media and content analysis.

## CERTIFICATIONS

Introduction to Machine Learning (NPTEL), Database Management System(DBMS), Computer Vision (Kaggle), Web Development (Udemy), Android Development (Netcamp)

## TECHNICAL SKILLS

**Languages:** C/C++, SQL, JavaScript, HTML/CSS

**Libraries:** Pandas, TensorFlow, OpenCV, Mediapipe, Matplotlib

**Tools:** Git, Linux, VS Code, Android Studio, PyCharm