

# Aditya Vardhan

BTech CSE, Bennett University (Times of India Group), Greater Noida.

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## Summary

Passionate software developer with expertise in **C++**, **Python**, and **JavaScript**, specializing in **machine learning**, **computer vision (YOLO, OpenCV)**, and **backend development (Node.js, MongoDB)**. Proven experience in **real-time AI applications**, **automation (RPA)**, and **full-stack development**, with a strong foundation in **data analysis and cloud computing**. Demonstrated leadership in **hackathons**, **research projects**, and **software solutions**, with a focus on **innovation and problem-solving**.

## Technical Skills and Interests

- **Programming:** C++, Python, JavaScript, HTML
- **Developer Tools:** Git, GitHub, VS Code, Docker, AWS
- **AI/ML:** TensorFlow, PyTorch, OpenCV, Numpy, Pandas, Scikit-Learn, Hugging Face
- **NLP:** NLTK, SpaCy, BERT, LLMs
- **Soft Skills:** Problem Solving, Adaptability, Event Management, Networking, Teamwork, Technical Documentation

## Projects

- **Assistive and Navigation Model for the Visually Impaired and Elderly People**

Github

Nov-2024

Designed a YOLO-based model to identify objects in **real-time**, optimizing it for visually impaired users.

### Tech Stack

- **Programming Language:** Python
- **Libraries:** ultralytics (YOLOv8), OpenCV, speech\_recognition, pyttsx3, threading for real-time synchronization.
- **Implemented** YOLOv8 for real-time object detection and tracking.
- **Developed** distance estimation and directional guidance features for spatial awareness.
- **Integrated** voice commands and audio feedback for interactive navigation.
- **Optimized** for cross-platform use with real-time synchronization and performance.

- **AI-Powered Resume Scanner**

Github

in progress

- **Developing** machine learning-based system to analyze resumes and match them with job descriptions.
- **Utilizing Scikit-Learn, TF-IDF**, and **NLP techniques** to extract and classify relevant skills and experience.
- **Implementing** text processing techniques using **NLTK** and **SpaCy** for keyword extraction and matching.
- **Building** a ranking model to assess resume-job description similarity using **cosine similarity** and **ML algorithms**.

## Education

- **Bennett University**  
B.Tech CSE
- **CBSE Certified (10th 12th)** — Central Board of Secondary Education

2022-present

CPI: 7.79

## Position of Responsibility

- **Team Lead** – Smart India Hackathon
- **Co-Management Head** – Robotics Process Automation (RPA)

## Certifications

- **Improving Deep Neural Networks**  
Learned advanced techniques for optimizing deep neural networks, including hyperparameter tuning, batch normalization, and regularization.
- **Introduction to Artificial Intelligence (AI)** – IBM  
Gained expertise in ML algorithms, data preprocessing, and model evaluation.

2023

Coursera

2023

Coursera

## Coding Profiles:

LeetCode Profile: Aditya\_1441

GeeksforGeeks Profile: adityathegeek