

MAYANK YADAV

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[Mayank Yadav LinkedIn](#)

EDUCATION

- **VIT Bhopal University** (August, 2022 – Present)
B. Tech CSE(Core) | CGPA: 8.78
- **Jawahar Navodaya Vidyalaya Ghaziabad** (May, 2020 – June 2021)
Higher Secondary | Percentage: 92.8%

SKILLS

- C++, Java, Python, Data Structures, Machine Learning.
- MySQL, HTML, CSS, JavaScript, MATLAB, DBMS.

PROJECTS

- Crop Recommendation System** (Ongoing)
- **Designed a machine learning model using Random Forest and Decision Tree**, achieving 98% accuracy in crop prediction based on environmental and soil parameters.
 - **Processed 50,000+ data points** covering temperature, humidity, and soil NPK levels to enhance prediction precision and improve agricultural efficiency.
 - **Built a Flask-based web interface supporting real-time crop recommendations**, reducing decision-making time by 40% for farmers and agronomists.
 - **Reduced the model's inference time, enabling predictions in less than 2 seconds**, improving user experience and scalability.
- Tune Souls - Music Recommendation Based on Emotion Detection** (Jan, 2024)
- **Developed a real-time facial expression-based music recommendation app in a collaborative team environment**, using Python, SQL, HTML, CSS, and JavaScript, enhancing personalized music experiences.
 - **Integrated OpenCV and a CNN model, achieving 88% accuracy in emotion detection** across seven primary emotions (happy, sad, angry, neutral, etc.).
 - **Processed 10,000+ facial images to train and fine-tune the model**, improving robustness and precision in emotion recognition.
 - **Enhanced the recommendation engine by dynamically suggesting songs based on user expressions**, increasing user engagement by 40%.
- Dream Reads - Book Recommendation Website** (Feb, 2023)
- **Developed a book recommendation system as part of a 5-member team**, improving personalized recommendations for thousands of users.
 - **Engineered an interactive UI using HTML, CSS, and JavaScript**, enhancing user engagement by 35%. Crafted and fine-tuned the front-end interface, reducing load time by 20%.
 - **Implemented collaborative filtering with Nearest Neighbors**, improving recommendation accuracy by 25%.
 - **Achieved an overall recommendation accuracy of approximately 85%**, enhancing personalized user experience.

CERTIFICATIONS AND ACHIEVEMENTS

CERTIFICATIONS

- **NPTEL Cloud Computing**: Earned the Elite Silver certification
- **COURSERA**: The Bits and Bytes of Computer Networking

ACHIEVEMENTS

- **Tackled a diverse array of 400+ coding problems on platforms like GeeksforGeeks and LeetCode**, resulting in a robust understanding of algorithms; secured top 10% placement in a regional programming contest.
[GeeksforGeeks](#), [Leetcode](#)
- **Attained an All-India Rank of 1145 in the GeeksforGeeks coding competition**, demonstrating exceptional proficiency in tackling complex algorithmic challenges among thousands of participants nationwide.

ADDITIONAL INFORMATION

- **Hobbies**- Coding, Technology, Sports, Music, Photography
- **Languages**: English (Professional working proficiency), Hindi (Native or bilingual proficiency)