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# HIRDESH SINGH

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## EDUCATION

### B. Tech (Bachelor of Technology)

Aug 2023 - Aug 2027

#### Computer Science

CGPA: 8.32/10

VIT-Bhopal University

## CORE TECHNICAL SKILL

- |           |              |                               |
|-----------|--------------|-------------------------------|
| • MongoDB | • MYSQL      | • Data Structure & Algorithms |
| • API     | • Java       | • Debugging & Troubleshooting |
| • HTML    | • JavaScript |                               |
| • CSS     | • Git        |                               |

## PROJECTS

### Medicare -

- Designed and developed a web-based platform that predicts diseases, based symptoms of user and provides nearby doctor appointments.
- Implemented secure authentication with separate logins for admin, doctor, and users.
- Designed smart slot booking system, allowing users to book slots with the available doctor to their preferred timings.
- Enabled doctors to confirm appointments, prescribe medicines, and manage patient interactions through the platform also.
- Utilized MongoDB for efficient data storage and retrieval, ensuring smooth user experience.

### Deep-Fake Video Detection -

- Developed an AI-powered system to detect face-swap deepfakes in videos using Deep Learning and Computer Vision.
- Implemented CNNs, RNNs, LSTMs, and frequency analysis for detecting visual and audio inconsistencies.
- Utilized FaceForensics++ dataset for training and optimized performance using adversarial training.
- Designed a React-based frontend for user interaction and integrated MongoDB for data storage.
- Designed for social media platforms, cybersecurity experts, and digital forensics to detect deepfakes and ensure content authenticity.

## EXTRA-CURRICULAR AND ACHIEVEMENTS

### Hackathon and Coding -

- University-Level Hackathons.

## CERTIFICATIONS

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- Introduction To Machine Learning- NPTEL