

## Bhavana Koli

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### EDUCATION:

#### VIT Bhopal University

B.Tech in Computer Science And Engineering-8.88 CGPA

Bhopal, MP

Expected 2026

### TECHNICAL SKILLS

- **Machine Learning** Python, CNN, Numpy, Data Science, Scikit-Learn, Pandas, TensorFlow.
- **Coding Languages:** Python, Java, MySQL.
- **Tools and Platforms:** Git, GitHub, Jupyter Notebook, AWS (basic), Streamlit.

### CERTIFICATES

- IBM AI Engineering Specialization, Coursera December 2024

### PROJECTS

#### RetinoScan | Machine Learning- Python, TensorFlow, OpenCV, CNN, Streamlit June 2024 – May 2025

- Engineered a CNN-based deep learning pipeline for diagnosing 3 diseases (Diabetes, Hypertension, Autism) from retinal images.
- Applied 4+ preprocessing techniques and 2x data augmentation strategies, improving input image clarity by 25%.
- Executed optic disc segmentation and feature extraction on 5K+ labeled images, enhancing classification confidence scores.
- Achieved over 79% precision on multi-label disease classification using custom-trained TensorFlow models.
- Deployed an interactive Streamlit dashboard for real-time diagnosis visualization and severity scoring to aid medical professionals.

#### MindWell | Machine learning- Python, Streamlit, Pandas, NLP, Audio APIs May 2025-June 2025

- Expanded an interactive mental wellness app with 3 quizzes, 6+ therapy tracks, and real-time emotional feedback using NLP sentiment scoring.
- Integrated audio APIs with embedded songs and rewards, increasing session duration by 10%.
- Used Pandas for data processing and visual feedback, improving clarity in burnout assessment.
- Designed a fully responsive and gamified front-end to enhance user retention and promote self-reflection.

#### MediConnect | Full Stack- HTML, CSS, JavaScript, Node.js, MySQL, PHP January 2024 – May 2024

- Built a comprehensive healthcare web platform encompassing 6+ modules such as online consultations, lab test booking, medicine delivery, and health blogs.
- Integrated doctor home visits, emergency ambulance booking, and online consultation into a seamless UI.
- Implemented an AI-based mental health chatbot, increasing user engagement by 40%.
- Designed a responsive, user-friendly interface with real-time scheduling and dynamic content integration..

### CO-CURRICULAR ACTIVITIES:

- **Hackathon Finalist:** Ranked top 50/236 teams in Health Hack 2025 by VIT Bhopal & Johns Hopkins University (JHU), USA. (February 2025)-demonstrated collaboration and creative strategic-thinking.
- **Hackathon Participation:** • Built AI and web-based solutions on women empowerment, mental health, and healthcare in EY Techathon 5.0, Imagine Hackathon by panIIT Alumni and HP Power Lab hackathon.
- Member of **AWS Emerging Talent Community**, engaging in Cloud network and global tech collaboration.
- **Leadership:** Technical Lead of Marathi Regional Club at VIT Bhopal, mentoring 30+ members.
- **Coding Challenges:** Accomplished 100 Days of Coding & 60 Days of Data Science under Dr.G Viswanathan Challenge (2024).

### EXTRACURRICULAR:

- First place in Football & 2x Runner up at Inter-University Tournament, Advitya Techno-Cultural Fest (February 2023).
- Champion (December 2022) & Runner-up (December 2023) in University Dance Competitions.