

# Bhavana Koli

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## EDUCATION:

**Bachelor of Technology**, VIT Bhopal University  
Major in **Computer Science and Engineering**, Cumulative GPA-8.85

Bhopal, Madhya Pradesh  
Expected July 2026

## TECHNICAL SKILLS:

- **Machine Learning:** Python, Data Science, Machine Learning, Deep Learning, scikit-learn, pandas, matplotlib, tensorflow, seaborn.
- **Coding Languages:** Python, JAVA, MySQL.
- **MLOps Tools:** Git, GitHub, AWS (basic), Streamlit, Docker, MLFlow, Google Colab, PyCharm.
- **Other:** FastAPI, CI/CD

## PROJECTS:

**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.

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

- Developed a CNN-based deep learning pipeline for diagnosing Diabetes, Hypertension, and Autism from retinal images, achieving a 79% AUC score on validation data.
- Implemented 4+ preprocessing techniques and 2x data augmentation, boosting image clarity by 25% and model robustness across 1,400+ labeled images.
- Performed optic disc segmentation and feature extraction on 5,000+ retinal images, enhancing classification accuracy and confidence.
- Built an interactive Streamlit dashboard for real-time diagnosis visualization with severity scoring, identifying 3 key bottlenecks in the diagnostic workflow.

**MediConnect** | **Full Stack-** HTML, CSS, JavaScript, Node.js, MySQL, PHP December 2023 – 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.

## ACHIEVEMENTS:

- **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:** Delivered AI and web-based solutions in domains of women empowerment, mental health, and healthcare at EY Techathon 5.0, Imagine Hackathon, and HP Power Lab Hackathon.
- Member of **AWS Emerging Talent Community**, engaging in Cloud network and global tech collaboration.
- **Coding Challenges:** Accomplished 100 Days of Coding & 60 Days of Data Science under Dr. G Viswanathan Challenge (2024), while actively pursuing my ongoing #JourneyToMLPro Challenge (2025).
- **TCS CodeVita 2025:** Secured Rank 9090 in Round 1 among 100,000+ participants nationwide.

## EXTRACURRICULAR:

- First place in Football & 2× Runner up at Inter-University Tournament, Advitya Techno-Cultural Fest (February 2023).
- Champion (December 2022) & Runner-up (December 2023) in University Dance Competitions.
- Technical Lead of Marathi Regional Club at VIT Bhopal, mentoring 30+ members.