

Bhavana Koli

Phone no: +91-7820818517 | Bhopal, Madhya Pradesh

Email: bk609469@gmail.com | LinkedIn: [bhavana-koli](#) | Github: [Bhavana-34](#)

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.