Bhavana Koli

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EDUCATION:

VIT Bhopal University   Bhopal, MP
B.Tech in Computer Science And Engineering-**8.88 CGPA**   Expected July 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, achieving an AUC score of 79% on held-out validation data.
- Applied 4+ preprocessing techniques and 2x data augmentation strategies, improving input image clarity by 25% and enhancing model robustness across 1,400+ labeled images.
- 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.
- Constructed an interactive Streamlit dashboard visualizing real-time medical diagnoses with severity scoring; dashboard identified 3 critical bottlenecks in the diagnosis process.

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:** 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).

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.