Bhavana Koli

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EDUCATION

VIT Bhopal University
B. Tech in Computer Science and Engineering -8.91 CGPA

Bhopal, MP
September 2022 – July 2026

Chh. Chatrapati Shivaji Maharaj Night College
Class XII - 76%

Solapur, Maharashtra
August 2021 – June 2022

St. Thomas English Medium School(ICSE Board)
Class X – 91%

Solapur, Maharashtra
June 2019 – June 2020

SKILLS

- **Technical Skills**   Python, Machine Learning, HTML, CSS, Data Science, AWS, Scikit-Learn,Pandas, TensorFlow.
- **Soft Skills**   Fluent in Hindi, English, Marathi, and conversational proficiency in Kannada,Teamwork,Leadership.

CERTIFICATES

- IBM AI Engineering Specialization, Coursera — December 2024
- Adobe UI & UX (Graphics Design), Adobe — April 2025
- AWS Solution Architect – AWS — May 2025

PROJECTS

RetinoScan | Python, TensorFlow, OpenCV, CNN   June 2024 – May 2025
- Developed a CNN-based machine learning model applying advanced algorithms and Data Preprocessing for automated diagnosis
  of Diabetes, Hypertension, and Autism using retina image analysis.
- Implemented optic disc segmentation and feature extraction to improve disease detection accuracy.
- Trained on a labeled retina dataset using TensorFlow, performed exploratory data analysis and feature engineering to optimize classification precision.
- Designed a retinopathy detection system with severity assessment and real-time visualization for medical diagnostics.

MediConnect | HTML, CSS, JavaScript, Node.js, MySQL, PHP   January 2024 – May 2024
- Developed a healthcare platform enabling hospital networking, lab test booking, and medication procurement, reducing response time by 30%.
- Integrated an AI-powered chatbot leveraging data-driven insights to enhance mental health support, increasing user engagement
  by 40%.
- Built a responsive front-end using HTML, CSS, and JavaScript, improving user experience and accessibility.
- Implemented automated scheduling and real-time alerts, reducing booking errors by 25%.

Carried-out data-driven data science projects involving Machine Learning Algorithms including Breast Cancer Detection, Human Pose Estimation(CNN), NeuroNudge(micro-burnout analysis) using scikit-learn for accurate prediction,and a GUI-based Expense Tracker, building a custom chatbot for website integration using NLP.

ACHIEVEMENTS

- **Hackathon Finalist:** Ranked top 50/236 teams in Health Hackathon 2025 by VIT Bhopal & Johns Hopkins University(JHU), USA.(February 2025)-demonstrated collaboration and creative strategic-thinking under pressure.
- Member of **AWS Emerging Talent Community**,engaging in Cloud network and global tech collaboration.
- **Hackathon Participation:** Competed in HP Power Lab,Imagine Hackathon, Flipkart GRiD 6.0(Software Development Track),and EY Techathon 5.0 gaining real-world industry exposure.
- **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(2023-2024).

CODING PLATFORMS:

- **LeetCode:** Solved 272+ problems, improving algorithmic thinking & data structures expertise.
- **Coding Ninjas:** Tackled 310+ challenges, enhancing problem-solving skills & competitive programming.
- **GeeksforGeeks:** Solved 152+ problems, focusing on DSA mastery & coding efficiency.

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.