

BHAVIK SHANGARI

+91-96364-55905 • bhaviks@iitbhilai.ac.in • linkedin.com/in/bhavik-shangari-416b0324a •
github.com/BhavikShangari

SUMMARY

Research and Industry experience across Computer Vision, Robotics, and Multimodal Large Language Models (LLMs) and Medical Foundation Models. Skilled in deep learning, edge deployment, and real-time AI systems. Passionate about building intelligent multimodal systems that connect perception and language.

EDUCATION

B.Tech in Data Science and Artificial Intelligence

Indian Institute of Technology (IIT) Bhilai, India

Graduating Expected May 2026

GPA: 8.77 / 10.0

Relevant coursework: Machine Learning, Advanced ML, NLP, Adversarial ML, Robotic Systems, Data Structures & Algorithms

TECHNICAL SKILLS

Languages: Python, C,

Frameworks & Libraries: PyTorch, TensorFlow, Keras, Transformers, Torchvision, OpenCV, scikit-learn, ROS2

ML Concepts: Vision-Language Models, LLMs, GANs, Reinforcement Learning, Self-Supervised Learning

Tools & Deployment: Docker, ONNX, TensorRT, Streamlit, Linux, Git

PUBLICATION

TechING: Towards Real World Technical Image Understanding via VLMs

with Dr. Ashutosh Modi & Dr. Gagan Raj Gupta [Paper](#)

Accepted (EACL 2026)

PROFESSIONAL EXPERIENCE

National University of Singapore, Singapore: Visiting Scholar, Dr Dianbo Liu

May 2025 – Present

- Built an anomaly-aware retinal foundation model using self-supervised learning and validated its representations through extensive linear-probing and finetuning benchmarks beating state-of-the-art methods.

Assurant (Fortune 500), Atlanta, GA / Remote: AI / Data Science Intern

May 2025 – Jul 2025

- Built components of a multi-agent multimodal system integrating last-mile logistics data for predictive AI.

KEY PROJECTS

Jetson-VLM – Lightweight Multimodal Vision-Language Model

2025

Developed and fine-tuned a DinoV2 + SigLIP + LLaMA 3.2 (1B) model optimized for Jetson Nano. ([GitHub](#))

Jetson-VLA – Vision-Language Action Foundation Model for Robotics

2025

Implemented OpenVLA approach to train manipulation policies on Bridge Data V2. ([GitHub](#))

CloudPhysician – AI-Based Patient Monitoring

2024

Built vision pipeline for vital-sign extraction from CCTV feeds using YOLO + OCR. ([GitHub](#))

Gesture-Controlled Robotic Arm

2023

Built robotic arm and computer-vision pipeline to mirror human hand movements for assistive control. ([GitHub](#))

ACHIEVEMENTS

IIT Bhilai's Young Researcher Award: Awarded for my Accepted Research Paper in EACL conference.

International RoboCup Challenge (2024): All-World Rank 6 – Finalist Round

Drishti Fellowship – TIH IIT Indore (2023): Awarded for developing a smart physiotherapy device for Trismus treatment

Competitive Exams: JEE Advanced AIR 3989 (2022), JEE Mains AIR 4160 (99.55%), Qualified KVPY

LEADERSHIP & ACTIVITIES

Coordinator – Data Science & AI Club, IIT Bhilai

Apr 2024 – Apr 2025

Organized AI workshops and technical events promoting student research projects.