BHAVYA KANSAL

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Education

Thapar Polytechnic College — **August 2023 – Present**
Diploma in Computer Science Engineering — *Patiala, Punjab*

Sunflower Model High School — **Completed 2022**
Secondary School Certificate (10th Grade) — *Patiala, Punjab*

Experience

IIT Ropar joint collaboration through NIELIT — **January 2026 – Present**
Internship Trainee — *Ropar, Punjab*
- Learning and training on cutting-edge technology initiatives at IIT Ropar's premier innovation center
- Collaborating with New growing technology Learn New Deep learning techniques and train myself
- Engaging in research and development activities focusing on technology commercialization

National Institute of Electronics & Information Technology (NIELIT) — **January 2026 – Present**
AI/ML Intern Trainee — *Ropar, Punjab*
- Undergoing intensive industrial training in Artificial Intelligence and Machine Learning technologies
- Developing proficiency in advanced ML algorithms, neural networks, and deep learning frameworks
- Working on real-world AI/ML projects involving data pre-processing, model development, and deployment

Projects

AAGNI - Telegram Chatbot | *Python, NLP, Telegram API, Machine Learning* — **2025**
- Developed (AAGNI), an advanced AI-powered Telegram assistant
- Implemented natural language processing capabilities to handle complex queries with unique personality traits
- Integrated Telegram API for seamless user interaction and deployed bot serving multiple concurrent users

Emotion Detector | *Python, OpenCV, TensorFlow, CNN, Deep Learning* — **2024**
- Built real-time emotion detection system using Convolutional Neural Networks (CNNs) for video feeds
- Achieved high accuracy in classifying human emotions through deep learning model optimization
- Implemented OpenCV for image pre-processing and TensorFlow for model training and deployment

Certificate Verifier | *Blockchain, OCR, Python, Computer Vision* — **2024**
- Designed robust document verification system integrating Blockchain technology for tamper-proof records
- Implemented OCR (Optical Character Recognition) for automated text extraction from certificates
- Developed multi-parameter validation system ensuring document authenticity and preventing fraud

Neurolock AI | *Neural Networks, Security Systems, AI, Authentication* — **2024**
- Created advanced security system leveraging neural networks for intelligent authentication
- Implemented anomaly detection algorithms to identify and prevent unauthorized access attempts
- Designed secure authentication protocol with real-time threat assessment capabilities

Technical Skills

Programming Languages: Python Programming (Strong), Full Stack web Development, Java and C++ (Intermediate)
Machine Learning/AI: Familiar and worked with Basic ML Libraries, OpenCV, NLP, Tensorflow, CNN and GAN's (Basic)
Robotics & IoT: Familiar with Controllers Arduino and Raspberry Pi, Sensor Integration

Research & Achievements

Research Focus: Researching in new and evolving AI and deep learning techniques. Try to understand how generative AI works, how to train and make it, Trying to understand LLM workflow. Also researching on advance robotic systems.
Areas of Interest: AI machine learning and deep learning, generative AI, LLM CNN and New techniques, Autonomous Navigation Systems, Computer Vision for Industrial Robotics

Professional Summary

Passionate Computer Science Engineering student with expertise in AI, Machine Learning, Robotics, and Deep Learning. Currently training at IIT Ropar and NIELIT, bringing innovative solutions to complex technical challenges. Proven track record of developing cutting-edge projects including AI assistants, detection systems, and blockchain-based security solutions. Strong foundation in both hardware-software integration with focus on advancing India's technology landscape through research and development.