Taran Pal Singh Heera

AI & Machine Learning Engineering Intern | Data Science | Computer Vision

taranpalsingh53@gmail.com | +91 8838228729 | _Linkedin_ / _GitHub_

PROFESSIONAL SUMMARY

AI and Data Science–focused engineer with practical exposure to machine learning systems, CNN-driven computer vision, and end-to-end data workflows. Dedicated to transforming AI concepts into robust, real world solutions through continuous learning and experimentation.

EDUCATION

B.E. – Computer Science and Engineering (Specialization: Artificial Intelligence & Machine Learning)
Sri Ramakrishna Engineering College   _2023 - Present_
CGPA -8.14 (TILL DATE)

Higher Secondary & Secondary
Lisieux M.H.S.S - Coimbatore   2021 - 2023
HSC - 91.6%

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript
- **Frameworks and Libraries:** TensorFlow, Keras, OpenCV, NumPy, Pandas, Streamlit
- **Artificial Intelligence:** Machine Learning, Deep Learning, Computer Vision, Image Processing, RNNs, LSTMs
- **Computer Vision Applications:** CNN-based Vision Systems, Gender & Age Detection, Real-Time Video Analysis
- **Generative Models:** Generative Adversarial Networks (GANs), Image Enhancement
- **Tools & Platforms:** Git, GitHub

ACHIEVEMENTS & LEADERSHIP

- IEEE publication on _Gender & Age Detection_ presented at Christ University
- Built and deployed a business website for the handicraft startup Nays Box
- Executive Member, _Computer Society of India (CSI)_ — 2024–25

CERTIFICATIONS

- Introduction to AI/ML – Kaggle
- Specialization in AI & ML (Degree-Integrated, College Program) _CGPA - 9.00 (TILL DATE)_

LANGUAGES

- English – Professional
- Tamil, Hindi , Punjabi - Conversational
- French - Basic

WORK EXPERIENCE

SOFTWARE DEVELOPMENT (Intern) - Hybrid
ANTRIVA AI LABS PVT LTD | Jan 2026 – Present
- Developing **Printrove**, an AI-powered WhatsApp-based T-shirt design and ordering platform using **Twilio WhatsApp API**
- Implementing **AI-driven T-shirt design generation** with **OpenAI (DALL·E 3)** and automating end-to-end order processing
- Contributing to feature development, debugging, and optimization while gaining exposure to real-world startup workflows

AI Engineer (Intern) - OnSite
LogicFocus Technology | Dec 2025
- Worked on CNN and advanced DNN architectures, GANs, and Explainable AI (XAI) for computer vision tasks
- Built and analyzed GAN-based models for data generation and model robustness
- Gained hands-on exposure to model interpretability, training stability, and deep learning optimization

AI & Software Engineering Intern - Onsite
JuzGoDigital PVT LTD| Dec 2024 - Jan 2025
- Developed LLM-powered AI chatbots using Streamlit and LLaMA with Flask-based backend integration
- Built modular Python services for real-time AI application workflows
- Gained experience in end-to-end AI system integration and scalability considerations

PROJECTS

CODDS — Cognitive Originality Drift Detection System | Full-Stack AI _(Ongoing)_
- Built a full-stack AI system to detect AI-generated content and writing-style drift
- Applied TF-IDF–based NLP, pattern analysis, and style fingerprinting
- **Metrics:** 95%+ accuracy | <3s analysis time | JWT-secured APIs

NeuroFocus — Focus Detection System
- Developed a real-time attention detection system using CNN-based vision models
- **Metrics:** ~25 FPS real-time inference | Stable accuracy

Low-Light Image Enhancement using GANs
- Designed a GAN-based pipeline to enhance low-illumination images
- **Metrics:** ~20% visual quality improvement | Stable adversarial training

Age & Gender Estimation System — Deep Learning, OpenCV | ~88% accuracy | <200 ms latency