

# HEMNATH

Coimbatore | hemnath0805@gmail.com | 8525859072 | linkedin

## Summary

AI and QA professional with 1+ years of experience in machine learning model development, test automation, and software quality assurance. Skilled in Python, TensorFlow, PyTorch, Selenium, and CI/CD pipelines. Experienced in NLP, computer vision, and deploying AI-driven solutions for healthcare and enterprise applications.

## Education

Sri Ramakrishna Engineering College - BTech Artificial Intelligence & Data Science 2020 - 2024

## Skills

**Languages & Frameworks :** Python, SQL, HTML, TensorFlow, PyTorch, Scikit-learn, OpenCV, Transformers , OCR

**AI Tools & Platforms:**Power BI, Data Analytics , MS Excel

**AI & Automation:** Google Colab, Streamlit, Git, Azure, ChatGPT

**Data Processing:** NumPy, Pandas, Data Cleaning, Feature Engineering

**Visualization & Analytics:** Power BI, MS Excel

**Testing & CV:** Selenium, Manual, Regression, API Testing, JIRA, CI/CD Pipelines, TestNG, Jenkins

## Experience

Associate Software Engineer in Test, HealthEdge – Hyderabad January 2024 – March 2025

- Contributed to testing of enterprise applications in the US Healthcare domain, with exposure to payer systems, claims workflows, and compliance processes.
- Performed manual and automated testing using Selenium; improved quality standards across functional, regression, and performance tests.
- Built robust automation frameworks and integrated them into CI/CD pipelines to streamline delivery and enhance test coverage.

AI Intern, RBG.AI – Coimbatore May 2023 – October 2023

- Developed and deployed deep learning models for Computer Vision and NLP using Python, TensorFlow, and OpenCV. Leveraged CNNs, RNNs, and Transformers to enhance model performance and accuracy.
- Integrated OCR for automated text extraction, streamlining data processing workflows.
- Led the end-to-end development of AI workflows, from data preprocessing to model inference and optimization.

## Projects

### Multimodal Depression Detection using ML

- Engineered an AI-powered multimodal system integrating text, audio, and video for enhanced depression detection. A fusion-based deep learning model using CNNs, NLP and speech analysis for high accuracy
- Optimized real-time feature extraction and preprocessing pipelines to enable scalable, efficient deployment.

### Human Activity Recognition

- Engineered a real-time AI system for human action recognition using multi-sensor data and deep learning. CNN-based models designed for feature extraction, pattern recognition, and precise activity classification.
- Preprocessing pipelines to improve model adaptability, scalability & robustness across diverse environments.

## Certification

- Artificial Intelligence Foundation – Nasscom FutureSkills
- Cybersecurity for AI – LTTS
- ML with Python - Coursera
- Python Foundation Certificate – LTTS
- Programming Foundations: Fuzzy Logic - LinkedIn Learning
- Security, Compliance, and Governance for AI Solutions – AWS
- Data Analytics Job Simulation – Deloitte