

Harish Shankar Thorath

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Profile

Junior Developer with 6 months of experience at DigiBull AI, building real-world production systems using **Python, Golang, and FastAPI**. Experienced in **AI/ML workflows**, backend development, and deploying shop-floor systems such as **AOI (Automated Optical Inspection)** and **CAT (Cable Assembly Traceability)**. Skilled in **PostgreSQL, n8n automation, manual testing for ETQ**, and developing **validation frameworks** to improve efficiency, with a focus on writing clean, scalable code and collaborating across development and testing teams.

Skills

Languages: Golang, Python, C.

AI/ML: Machine Learning fundamentals, Data preprocessing and analysis, Model training and evaluation.

Frontend: React.js, Tailwind CSS, HTML5, CSS3.

Backend: Golang, FastAPI, REST APIs, Gin Gonics.

Libraries: Matplotlib, Numpy, Pandas, Tensorflow, OpenCV.

Other Tools & IDEs: Clickup, GitHub, Jira, VS Code, Claude, MS Office, n8n.

Experience

Machine learning Intern | Contriver, Mysore, Karnataka, India

July 2024 – Jan 2025

- Built a strong foundation in Python and machine learning frameworks through hands-on development tasks
- Worked on a real-world project “**Heart Attack Risk Prediction using Retinal Eye Images**”, applying end-to-end ML workflows
- Developed an understanding of real-world project lifecycles, from problem definition to model validation

Junior Developer | DigiBull AI, Mysore, Karnataka, India

Aug 2025 – Jan 2026

- Developed backend systems using **Python, Golang, and FastAPI** for real-world projects and shop-floor applications
- Designed **RESTful APIs and database schemas** for QR-based cable tracking and contributed to **production deployment** of AOI and CAT systems
- Performed **manual testing for ETQ** and built a **validation framework** to automate and improve testing efficiency

Projects

CardioPredict: Python, Flask, Pandas, CNNs, TensorFlow/Keras, OpenCV, NumPy.

- Built a heart attack risk prediction system using CNNs on retinal images with **85%+ accuracy**.
- Developed a Flask **web app** for real-time image upload and **instant health risk analysis**.
- Achieved reliable predictions in testing, helping identify **high-risk patients with over 80% precision**.

AOI - Automated Optical Inspection System: Python, Machine Learning, Computer Vision, FastAPI, PostgreSQL, Docker.

- Developed an AI-based system to detect **wire interchange defects** in cable assemblies on the shop-floor
- Implemented computer vision models and FastAPI backend services, containerized using **Docker** for production deployment
- Deployed the system in a **live cable assembly environment** to reduce manual inspection effort and improve defect detection accuracy

CATS – Cable Assembly Traceability System: Python, Golang, FastAPI, PostgreSQL, REST APIs.

- Designed and developed a QR code-based traceability system to track cable assemblies across production stages
- Architected RESTful APIs and database schema enabling real-time status updates and optimized query performance
- Deployed system on **shop-floor assembly lines** to improve traceability and production visibility

Validation Framework – Test Automation Utility: Python, Golang, React, Automation, REST APIs.

- Developed a reusable validation framework to automate data and process validation across applications
- Reduced manual validation efforts by standardizing checks and improving testing efficiency
- Used during project testing phases to support faster and more reliable validation workflows

Education

Bachelor of Engineering Coorg Institute of Technology Ponnampet, Karnataka	2021 – 2025
Bachelor of Engineering in Computer Science	<i>CGPA: 8.58 / 10</i>
Pre-University Sharada Vidya Mandir PU College Mysore, Karnataka	2019 – 2021
Core subjects: Physics, Chemistry, Mathematics, Computer Science	<i>Percentage: 79.84%</i>

Achievements

- Participated in the CODEATHON – an inter-department ‘C’ coding Competition conducted on 25-07-2023.
- Completed NPTEL (by IIT KGP and IIT M) course specialized in “Java Programming” and “Cyber security & Privacy”.
- Awarded first place for designing an embedded system to protect crops from wild animals.