

# ABIN THOMAS

AI Engineer

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 Vytila,Kochi

## ABOUT ME

AI Engineer with expertise in PyTorch, Hugging Face, CNNs, ViTs, and FastAPI, focused on building scalable, production-ready AI applications. Experienced in computer vision, and end-to-end deployment, with strong foundations in data processing and model evaluation.

## TECHNICAL SKILLS

- Strong Python programming skills with extensive experience in SQL and basic JavaScript.
- Proficient in PyTorch, TensorFlow, Scikit-learn, and Hugging Face for AI/ML model development.
- Experienced in CNNs, Vision Transformers (ViT), Transfer Learning, and Fine-Tuning.
- Skilled data analysis and visualization using Pandas, NumPy, Matplotlib, Seaborn and Power BI.
- Experienced in building production-ready APIs with FastAPI and testing with Postman.

## WORK EXPERIENCE

Tech By Heart Pvt.Ltd | 2025 - Present

AI Engineer Intern

- AI vs Real Image Detection: Custom CNN + ViT with FastAPI for real-time AI vs real classification.
- AI Resume Analyzer: Extracts insights and evaluates resumes to streamline recruitment.
- AI Chatbot: Hugging Face DialoGPT for context-aware, interactive conversational responses.

## PROJECTS

AI vs Real Image Detection System

- Built a custom CNN from scratch using PyTorch to capture low-level visual artifacts, combined with a fine-tuned Vision Transformer (ViT) to extract semantic features for image classification.
- Implemented a highly robust hybrid ensemble strategy that merges CNN and ViT predictions, significantly improving reliability, accuracy, and resistance to adversarial inputs.
- Developed an end-to-end, production-ready pipeline with preprocessing, model evaluation, and inference capabilities, applicable to AI content detection, deepfake analysis, digital forensics,

AI Analyser

- Built a fully interactive AI-powered resume analyzer using Streamlit, enabling users to upload resumes and receive automated insights in a user-friendly interface.
- Processed, parsed, and analyzed resumes in multiple formats (PDF, DOCX, TXT) using keyword extraction and pattern matching to evaluate candidate profiles and extract key information.
- Designed a custom user interface with login authentication, dynamic results visualization, and interactive dashboards, providing actionable insights to streamline recruitment workflows.

AI Chat Bot

- Built and fine-tuned an AI chatbot using Hugging Face DialoGPT by processing, cleaning, and tokenizing Q&A data for effective conversational training and context-aware response.
- Trained, evaluated, and saved a deployable model for generating context-aware responses.

## EDUCATION

Kannur University | 2022-2025

Bachelor Of Computer Application

Depaul Arts And Science College Edathottty,kannur

CGPA - 7.1