SANMAY VINOD

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EDUCATION

B.Tech in Computer Science and Engineering 2022 – 2026
College of Engineering, Trikaripur, Kasaragod
APJ Abdul Kalam Technological University (KTU)

SKILLS

Languages	Python, PHP, C, JavaScript, SQL, Rust, Java
Frameworks	Scikit, PyTorch, TensorFlow, Keras, React, RAG, NodeJS, FastAPI, Langchain
Tools	Postman, Docker, Prefect, PostgreSQL, MySQL, Github Actions, Pinecone
Platforms	Redis, AWS, Git, Prometheus, Hugging face, MLflow

EXPERIENCE

Artificial Intelligence Intern Oct 2025 – Present
Codtech IT Solutions *Remote*

- Developed NLP applications including a text summarization system and real-time speech-to-text pipeline using Python and Hugging Face Transformers.
- Implemented neural style transfer models using PyTorch and a text generation system using TensorFlow and OpenAI API.
- Built and tested model inference pipelines, focusing on API integration, preprocessing, and deployment readiness.

AI / Machine Learning Intern Sep 2025 – Nov 2025
Alpha Innovations *Remote*

- Built an AI-driven supply chain forecasting system for demand prediction, inventory tracking, and automated stock alerts using time-series ML models.
- Implemented data preprocessing, feature engineering, and backend workflow automation on the M5 Forecasting Dataset for end-to-end pipeline execution.

Machine Learning Intern Sep 2025 – Oct 2025
Vislona *Remote*

- Developed an Image Quality Analyzer using Python and scikit-learn to detect blur, noise, sharpness, and clarity in uploaded images.
- Built a Dual AI Task Assignment System using LightGBM and Gemini API, achieving 95% classification accuracy for automated task routing.

PROJECTS

- **NodeFlow — Visual AI Workflow Automation Platform (Ongoing)** — Building a node-based workflow automation system using React, Tailwind CSS, Node.js, and Supabase to visually design, execute, and track multi-step task pipelines with conditional logic and persistent execution state.
  Containerizing with Docker and deploying on AWS, with active development on secure API communication, real-time workflow status updates, and scalable backend orchestration.
- **AutoML -** Engineered a production-grade end-to-end MLOps pipeline using scikit-learn, Prefect, FastAPI, Docker, and GitHub Actions to automate feature engineering, orchestrated model training, CI-driven testing, containerized deployment, real-time inference, and request-level prediction monitoring with drift analysis.(Github)