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Profile Summary

AI & ML Engineer with strong expertise in building and deploying machine learning and deep learning models using Python, TensorFlow, Keras, and Scikit-learn. Skilled in data preprocessing, model optimization, and performance tuning. Experienced in real-time inference, MLOps, and cloud deployment using AWS (EC2, ECS, S3). Proficient in using Node-RED for ML workflows and automations. Known for delivering scalable, production-ready AI solutions that solve real-world problems with precision and efficiency.

Education

B.Tech – Artificial Intelligence and Machine Learning, 10/2021 – 2025 | Coimbatore, India
Sri Sakthi Institute of Engineering and Technology.

Professional Experience

Software Engineer Trainee 01/2025 – present | Trichy, India

Neartekpod APAC Technologies – 6 Months **Product: Simplif AI** 📄

- Built an AI-powered chatbot to automate interactions, reducing HR query resolution time by **40%**.
- Developed a complete payslip generation system to streamline payroll processing.
- Deployed the product on AWS using EC2, ECS, S3, Cloud watch & handling **70+ monthly user requests** with **99.9% uptime**.
- Integrated secure authentication and onboarding workflows to enhance user access using Auth0.

Projects

"Polyps Detection" in Endoscopy Live Feeds

- Built a real-time polyp detection system using YOLOv8, processing video streams at 30 frames per second..
- Achieved 97% detection accuracy by fine-tuning pre-trained CNN models on annotated medical datasets, optimizing precision with Non-Max Suppression and data augmentation.

"LLM-Powered Chatbot for Versatile offline language processing of Diverse Media"

- Created an offline chatbot using MapReduce Chain for media summarization, grammar correction, and Q&A.

Technical Skills

- **Programming Languages:** Python, JavaScript
- **Frontend:** React.js, Next.js, Tailwind CSS
- **Backend:** Node-RED, DynamoDB
- **AI/ML:** TensorFlow, Keras, Scikit-learn, OpenCV, LLMs (GPT-4, Claude, LLaMA)
- **Cloud/DevOps:** AWS (EC2, ECS, S3, CLI, CloudWatch), Docker
- **Auth & Security:** Auth0
- **Tools:** Git, GitHub, VS Code, Postman, Cursor AI

Certificates

- Joy of Computing Using Python – NPTEL, 2023
- Machine Learning Specialization DeepLearning.AI | Coursera