

# Dinesh Ram

Associate AI Engineer

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## Summary

As an AI Engineer, I'm passionate about turning complex challenges into practical solutions. With strong programming skills and hands-on experience in machine learning and deep learning, I focus on building and deploying models that make a real-world impact. I'm always curious and excited to explore new ideas and find innovation in the AI space.

## Experience

<b>Edsols Innovations Pvt. Ltd.</b>	Bengaluru, India
<b>• Associate AI Engineer</b>	<b>Sep 2024 - Present</b>
<ul style="list-style-type: none"><li>Developed an interactive app for children with disabilities, using ReactJS and FastAPI to create a responsive, accessible platform.</li><li>Implemented AI-driven phoneme matching to analyze and rate children's speech, <b>enhancing diagnostic accuracy by 30%</b> and providing real-time feedback to therapists for quicker intervention.</li><li>Integrated an EMR module for large-scale data management and reporting, enabling compliance with healthcare standards.</li></ul>	
<b>• Graduate Engineering Trainee</b>	<b>Jul 2023 - Aug 2024</b>
<ul style="list-style-type: none"><li>Developed Flask-based software to process large financial datasets, optimizing SQL commands and parallelizing report generation with PostgreSQL, <b>reducing report generation time by 70%</b> and visualizing insights through Power BI dashboards, significantly improving efficiency.</li><li>Built and deployed computer vision and predictive models using deep learning frameworks on robots for automation tasks.</li><li>Deployed a chatbot on AWS, enabling customers to access stock data more quickly, reducing data retrieval time and enhancing overall user efficiency.</li></ul>	
<b>GE Healthcare Lab @Sri Ramakrishna Engineering College</b>	Coimbatore, India
<b>• Student Researcher</b>	<b>Jan 2022 - May 2023</b>
<ul style="list-style-type: none"><li>Conducted research in collaboration with GE Healthcare to design a <b>YOLOv5-based Medical Equipment Detection System</b> for ICU monitoring.</li><li>Achieved <b>90% detection accuracy</b> by collecting and annotating real-world datasets from hospital environments and optimizing the model with TensorRT for <b>20ms inference time</b>.</li><li>Deployed the solution on Jetson Nano for real-time edge performance, reducing equipment identification delays and improving ICU workflows.</li></ul>	

## Projects 🔗

<b>Dynamic Knowledge Graph Generator</b> — LTTS Techgium
Streamlined data structuring by generating <b>dynamic, clutter-free knowledge graphs</b> using NLP and neuralcoref.
<b>AI Image Description Tool for the Visually Impaired</b> — Smart India Hackathon
Designed a <b>CNN-LSTM model</b> for real-time image-to-speech conversion, enabling accessibility on edge devices.
<b>AI-Powered Reception and Luggage Management System</b>
Automated processes with DofBot using <b>OpenCV and ROS</b> , achieving <b>15-second luggage handling time</b> with facial recognition and robotics.
<b>Hate Speech Detection for Twitter</b>
Trained a <b>SVM classifier</b> model to detect hate speech in tweets <b>without using the Twitter API</b> , enhancing moderation process.

## Education

<b>Bachelor of Technology in Artificial Intelligence and Data Science</b>	<b>2020 - 2024</b>
Sri Ramakrishna Engineering College	CGPA: 9.11/10
Coimbatore, Tamil Nadu	

## Certifications and Skills

<b>Certifications</b>	<b>Skills</b>
<ul style="list-style-type: none"><li>Deep Learning with Keras, EdX</li><li>Business English Certification (B2), Cambridge UP</li><li>AI on Jetson Nano, NVIDIA</li><li>AWS Machine Learning, LinkedIn</li><li>MLOps Essentials, LinkedIn</li></ul>	<ul style="list-style-type: none"><li><b>Languages:</b> Python (NumPy), R, SQL, JavaScript, C++</li><li><b>Frameworks:</b> TensorFlow, PyTorch, Transformers, FastAPI, Scikit-Learn, Next.js, React, PostgreSQL</li><li><b>Core:</b> Machine Learning, NLP, Data Science</li><li><b>Tools:</b> AWS, Docker, Git</li></ul>