

SARAN KUMAR. S

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Professional Summary

Generative AI & Machine Learning Engineer with a solid background in developing, deploying, and optimizing models. Experienced in data preparation, algorithm development, and scalable solution design. Proficient in leveraging popular programming tools and frameworks to drive performance improvements and ensure robust deployment of AI solutions.

Education

KPR Institute of Engineering and Technology Coimbatore *B.E. Computer Science and Engineering (AIML)*
CGPA: 8.42 (Upto 5th Sem)
G. Ramasamy Naidu Matriculation Hr. Sec. School Coimbatore *Higher Secondary Education (HSE)*
Percentage: 92% (2022)

Experience

Codsoft Solutions (ML Engineer) *Jun 2024 – Jul 2024*
• Worked on various machine learning applications, including movie genre classification, credit card fraud detection, customer churn prediction, and spam SMS filtering.
• Optimized data preprocessing workflows to improve efficiency in model training and deployment.
Learn and Build (ML Engineer) *Jun 2023 – Jul 2023*
• Developed machine learning models for agriculture-related use cases, including soil prediction and crop recommendation.
• Applied network science techniques to enhance predictive accuracy and decision-making.

Projects

WeatherMate: AI-Powered Weather Assistant *[React, TypeScript, Lyzr, Gemini]*
• Engineered an AI-driven weather assistant to provide real-time weather insights and planning assistance.
• Integrated multiple APIs (Lyzr Agent, Gemini, OpenWeather) to enhance forecasting accuracy and user experience.
AI-Powered Productivity *[TypeScript, React, Tailwind CSS, Supabase, Clerk, Groq]*
• Developed an intelligent AI-powered task management platform with analytics and automation.
• Integrated Groq's Llama 3.3 70B for smart task prioritization, productivity tracking, and workflow optimization.
RoastMyCV: AI Resume Reviewer *[AI, Resume Analysis, Next.js]*
• Built an AI-powered resume reviewing app offering candid, adjustable feedback and visual scoring.
• Added industry-specific insights, interactive chat interface, and achievement badge system for motivation.
JobInsight AI *[Lyzr AI, Next.js, Resume Generator]*
• Designed an AI-driven job insights and career guidance platform powered by Lyzr AI.
• Enabled ATS-friendly resume generation and interactive chat for personalized career advice.

Technical Skills

• Languages: Python, Java, JavaScript, SQL	• LLMs & APIs: OpenAI, Gemini, Mistral, Groq, Lyzr, Deepseek, Claude, Kimi
• Frameworks: TensorFlow, PyTorch, Streamlit, Hugging Face, React	• Databases: PostgreSQL, MongoDB
• Tools: Git, GitHub, VS Code, CodeLM, LangChain, Cursor	• Methodologies: Prompt Engineering, Fine-Tuning, RAG

Volunteering

• **IEEE Region 10 WIE Social Innovation Camp 2023, Student Volunteer:** Led STEM workshops for pre-university students.
• **IEEE Day 2024, Event Organizer & Volunteer:** Organized 10+ events and leadership talks, contributing to the Best Society 2024-25 award.

Certifications

• AWS Certified Cloud Practitioner	• Nasscom Acquiring Data
• GitHub Certified Foundations	• Lyzr Certified Agent Builder
• IBM Machine Learning Professional	• NPTEL: NLP & Safe AI

Awards

• **1st Place (University),** IEEE Xtreme Codeathon
• **1st Place,** Paper Presentation, Technovista, Sri Eshwar College
• **Top 25,** Intel OneAPI Gen AI Hackathon, 2024, KPRIET
• Co-authored “Transforming Data Visualization with AI and ML,” IGI Global