Raja Sudharshana Govind R

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Professional Summary

AI & Data Science Engineer with hands-on expertise in Computer Vision, Deep Learning, Machine Learning, and Cloud Computing, specializing in YOLO-based object detection, thermal imaging systems, and intelligent automation. Proficient in Python, FastAPI, TensorFlow, Scikit-learn, AWS, Azure AI, and real-time detection systems. Currently a Programmer Analyst at Cognizant with experience in software debugging, incident resolution, REST API development, and cloud-enabled application support.

Technical Skills

Programming: Python, Java, SQL
Frameworks & APIs: FastAPI, REST APIs, OOP
ML / DL: CNN, YOLO, TensorFlow, Scikit-learn
Data Analytics: Pandas, NumPy, Power BI, Data Visualization
Cloud: AWS (EC2, S3, RDS, Lambda), Microsoft Azure AI
DevOps: Git, GitHub, Docker, CI/CD Pipelines
Databases: MySQL, MongoDB
Tools: Postman, Figma
Languages: Tamil (Native) · English (Proficient) · Malayalam (Conversational)

Professional Experience

Cognizant Technology Solutions July 2025 – Present
Programmer Analyst *Chennai, TN*

- Developed and maintained Python-based backend modules and FastAPI REST services to support enterprise application delivery
- Resolved software incidents and code defects using structured debugging and troubleshooting methodologies
- Collaborated with cross-functional teams to support delivery of technology solutions within Agile sprint cycles
- Documented incident resolutions and contributed to internal knowledge repositories for team reference

NSIC, Chennai, Tamil Nadu June 2023 – July 2023
Trainee — Embedded Systems with AI & IoT

- Completed hands-on training in IoT device connectivity, sensor integration, and embedded circuit design
- Explored AI applications in embedded systems and developed mini-projects demonstrating IoT-AI integration

Projects

Wildlife Threat Detection System | *YOLO, Thermal Imaging, FastAPI, ESP32, LoRa, AWS Lambda*

- Built real-time AI wildlife detection using thermal imaging and YOLO; deployed inference pipeline as a FastAPI REST service on AWS Lambda
- Designed long-range alert mechanisms via ESP32 and LoRa to notify forest officials, reducing human-wildlife conflict risk

YOLO-Based Animal Classification | *YOLO, Python, TensorFlow, FastAPI*

- Trained YOLO object detection models on RGB and thermal image datasets for multi-class wildlife classification
- Built a FastAPI backend to serve model predictions via REST endpoints; performed data preprocessing, annotation conversion, and train-test splitting

Research Papers (Presented, Publication Pending)

"Performance Analysis for Recognition System Using Convolutional Neural Network"
"AI-Driven Early-Warning System for Human-Wildlife Coexistence"

Education

PSNA College of Engineering and Technology Dindigul, TN
B.Tech — Artificial Intelligence and Data Science | CGPA: 7.5 *2021 – 2025*
Indira Gandhi Mem Mat High Sec School Madurai, TN
Higher Secondary (XII): 92% *2021*
Indira Gandhi Mem Mat High Sec School Madurai, TN
SSLC (X): 94% *2019*

Certifications & Awards

Certifications: Oracle Cloud Infrastructure 2025 Certified Generative AI Professional · AWS Certified Cloud Practitioner · AWS Certified AI Practitioner · Microsoft Azure AI Engineer Associate (ICT Academy) · Introduction to Cybersecurity (Cisco) · Postman API Fundamentals Student Expert

Awards: 2nd Place with Cash Award — Hackathon 2K24, Kumarasamy College of Engineering, Karur · Final Round Qualifier — IEEE YESIST12 International Project Expo

Leadership: President, State-Level Symposium · AWS Cloud Club Coordinator (2024)