

Rohit Vilas Ingle

Backend Developer | Python & Go Developer | Machine Learning Engineer

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PROFESSIONAL EXPERIENCE

Rapid Innovation, Python Developer / AI Developer 🔗 <ul style="list-style-type: none">Built real-time voice AI agents using OpenAI, LiveKit with context-managed memoryCreated Model Context Protocol servers for dynamic data access including web scrapingImplemented agent-to-agent protocols for collaborative multi-agent environments	Dec 2024 – Jun 2025 (Remote) Noida, Uttar Pradesh, India
Third Origin LLC, Python Developer / Backend Developer 🔗 <ul style="list-style-type: none">Implemented diverse testing strategies for comprehensive software validationDeveloped CLI tool for bulk task execution, optimizing software scalabilityImplemented pytest for stress testing Celery workers, analyzing latency and efficiency	Sep 2023 – Dec 2023 (Remote) Raleigh, North Carolina, USA
iHUB DivyaSampark IIT Roorkee, Machine Learning Engineer 🔗 <ul style="list-style-type: none">Developed ML model to forecast retail sales, enhance inventory managementContributed to a data analysis project for a hydroelectric dam, extracting insightsApplied ML techniques to optimize dam operations, enhancing efficiency and resource	Jun 2023 – Jul 2023 (Remote) Roorkee, Uttarakhand, India

PROJECTS

AgentSphere - AI Agent Collaboration Platform 🔗 <ul style="list-style-type: none">Built multi-agent AI chat platform supporting real-time group chats via WebSockets and secure LLM integrationsAdded auto-generated AI agents with dynamic prompts and integrated MCP tools for external service automationSkills: <i>django, rest, postgresql, redis, celery, websocket, hashicorp vault, flower, autogen, mcp, nextjs, tailwind</i>
Stockastic Revamped - Real-Time Stock Monitoring Platform 🔗 <ul style="list-style-type: none">Built a stock monitoring platform with real-time insights, secure authentication, and favorite stock trackingAdded interactive Plotly graphs and advanced tools for performance visualization and analysisSkills: <i>python, redis, django, websocket, plotly, pytest, tailwindcss, s3 storage, postgresql, nginx, yfinance</i>
Order Management System 🔗 <ul style="list-style-type: none">Built microservices e-commerce system with authentication, inventory management, and Stripe paymentsImplemented Docker-containerized architecture with service discovery and message queuingSkills: <i>go, gin, gRPC, mongodb, rabbitmq, redis, docker, stripe api, jwt authentication, consul, jaeger, swagger</i>

PUBLICATIONS

TranSegNet: A Hybrid Transformer Model for Satellite Imagery Segmentation with Performance Benchmark, Procedia Computer Science Internation Journal (ELSEVIER) (Published) 🔗 Remote Sensing Deep Learning Image Processing Image Segmentation Hybrid Model Transformer Model Skills: <i>python, opencv, tensorflow, plotly, pillow, keras, scikit-learn, transformer, attention-mechanism</i>
Refining Cyclonic Cloud Analysis Via INSAT-3D Satellite Imagery and Advanced Image Processing Techniques, International Journal of Image, Graphics and Signal Processing (IJIGSP) (Published) 🔗 Satellite Remote Sensing Cyclone Detection Algorithms Image Normalization Techniques Image Segmentation Skills: <i>python, pandas, numpy, scipy, matplotlib, seaborn, plotly, pillow, opencv, tensorflow, keras</i>
Satellite Image Segmentation for Forest Fire Risk Detection using Gaussian Mixture Models, 2023 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC) (Published) 🔗 Vegetation Mapping Environmental Monitoring Image Processing Techniques Image Segmentation Algorithms Skills: <i>python, pandas, numpy scipy, matplotlib, seaborn, plotly, pillow, opencv, pytorch, torchvision</i>

EDUCATION

G. H. Raisoni College of Engineering (CGPA 9.34), B. Tech Data Science 🔗 Courses: Machine Learning Computer Vision and Deep Learning Data Preprocessing Computer Networks Natural Language Processing Computer Vision Data Science	Jul 2021 – present (On-Site) Nagpur, Maharashtra, India
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