




Rohit Vilas Ingle

Backend Developer | Python & Go Developer | Machine Learning Engineer




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PROFESSIONAL EXPERIENCE

Rapid Innovation, Python Developer 	Dec 2024 – Present (Remote) Noida, Uttar Pradesh, India
<ul style="list-style-type: none">Built an HRMS platform for employee time tracking and leave managementDeveloped a multi-AI agent framework using LangChain, LangGraph and AutoGenExtended AI agents with Model Context Protocol for tool and data access	
Third Origin LLC, Python Developer 	Sep 2023 – Dec 2023 (Remote) Raleigh, North Carolina, USA
<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	
iHUB DivyaSampark IIT Roorkee, Machine Learning Engineer 	Jun 2023 – Jul 2023 (Remote) Roorkee, Uttarakhand, India
<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	


PROJECTS

Stockastic Revamped 
<ul style="list-style-type: none">Built a stock monitoring platform with real-time insights, secure authentication, and favorite stock tracking.Added interactive Plotly graphs and advanced tools for performance visualization and analysis.Skills: <i>python, redis, django, websocket, plotly, pytest, tailwindcss, s3 storage, postgresql, nginx</i>
Django Apartment Management 
<ul style="list-style-type: none">Developed comprehensive user authentication, profile management, and apartment issue reporting features.Implemented backend with Django, integrated Celery for async tasks, and containerized the app using Docker.Skills: <i>python, django, django-rest-framework, postgresql, redis, celery, celerybeat, flower, djoser, oauth, nginx</i>
Order Management System 
<ul style="list-style-type: none">Built microservices e-commerce system with authentication, inventory management, and Stripe payments.Implemented Docker-containerized architecture with service discovery and message queuing.Skills: <i>go, gin, gRPC, mongodb, rabbitmq, redis, docker, stripe api, jwt authentication, consul, jaeger, swagger</i>

PUBLICATIONS

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