

Rohit Vilas Ingle

Backend Developer | Python & Go Developer | Machine Learning Engineer

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PROFILE

I'm a B. Tech Data Science student focused on backend development with Python, Django, FastAPI, and Go. I enjoy tackling complex problems and bringing ideas to life through code. Right now, I'm diving into microservice architectures with Go and FastAPI, blending classroom learning with hands-on experience to build smarter data-driven solutions.

EDUCATION

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

PROFESSIONAL EXPERIENCE

Third Origin LLC, Python Developer ⓘ Sep 2023 – Dec 2023
• Implemented diverse testing strategies for comprehensive software validation (Remote) Raleigh, North Carolina, USA
• Developed CLI tool for bulk task execution, optimizing software scalability
• Implemented pytest for stress testing Celery workers, analyzing latency and efficiency

iHUB DivyaSampark IIT Roorkee, Machine Learning Engineer ⓘ Jun 2023 – Jul 2023
• Developed ML model to forecast retail sales, enhance inventory management (Remote) Roorkee, Uttarakhand, India
• Contributed to a data analysis project for a hydroelectric dam, extracting insights
• Applied ML techniques to optimize dam operations, enhancing efficiency and resource

PROJECTS

Stockastic ⓘ
• Developed Stockastic, a stock prediction app with Python, Streamlit, YFinance, StatsModels, and Plotly.
• Implemented features for real-time data fetching, ARIMA forecasting, and interactive financial chart.
• **Skills:** *python, scikit-learn, pandas, numpy, scipy, seaborn, matplotlib, plotly, yfinance, statsmodels, streamlit*

Django Apartment Management ⓘ
• 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:** *python, django, django-rest-framework, postgresql, redis, celery, celerybeat, flower, djoser, oauth, nginx*

Go Restaurant Management Backend ⓘ
• Developed a restaurant backend in Go with authentication and CRUD for menus, food, tables, orders, and invoices.
• Designed RESTful APIs using Gin, secured with JWT, and integrated with MongoDB for data management.
• **Skills:** *go, gin-gonic, validator, zap logger, crypto, jwt authentication, mongodb, middlewares, docker*

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: *python, pandas, numpy, scipy, matplotlib, seaborn, plotly, pillow, opencv, tensorflow, keras*

Satellite Image Segmentation for Forest Fire Risk Detection using Gaussian Mixture Models, 2023 2nd International Conference on Applied Artificial Intelligence and Computing (ICAIC) (Published) ⓘ
Vegetation Mapping | Environmental Monitoring | Image Processing Techniques | Image Segmentation Algorithms
Skills: *python, pandas, numpy, scipy, matplotlib, seaborn, plotly, pillow, opencv, pytorch, torchvision*