Rishabh Balaiwar

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Software Engineer - Machine Learning

Experienced in developing real-time monitoring systems and data analysis tools. Strong expertise in Machine Learning, Computer Vision, and Deep Learning, optimizing models and pipelines for operational efficiency.

WORK EXPERIENCE

Siemens Technology and Services Pvt. Ltd. • Bangalore, India • Feb 2022 - Jun 2024
Software Engineer - Machine Learning

- Developed a real-time soil moisture monitoring system using unsupervised learning, optimizing crop irrigation.
- Leveraged QGIS and SQL to enhance data retrieval speed and analysis efficiency.
- Built ML pipelines for forecasting in Saudi Arabia, achieving 91% accuracy.

Technical Intern

- Created a Python-based automated data analysis tool for management reporting.
- Developed ML pipelines for oil projects, enhancing object identification and classification.
- Contributed to a predictive model for fluid leakage detection in pipelines.

Amply (AI Borne Tech) • Delhi, India • May 2021 - Feb 2022
Machine Learning Intern

- Designed and led the analytical pipelines for computer vision tasks in object detection and tracking.
- Built real-time damage inspection models deployed on Nvidia Jetson for manufacturing.

VOLUNTEERING & LEADERSHIP

ITM-Student Leadership Council • Jan 2025 - May 2026
General Secretary

Social Media Team, ITM-Student Leadership Council • Aug 2024 - Jan 2026
Member

AI Borne Tech • Aug 2021 - Feb 2022
Tutor/Product Ownership

SKILLS

- **Technical Expertise:** Computer Vision, Deep Learning, Machine Learning, Python, Reinforcement Learning, R-Studio, SQL, Time Series Forecasting
- **Tools & Platforms:** AWS (EC2/S3), AWS QuickSight, Firebase, Git/GitHub, PyTorch, Tableau
- **Leadership & Collaboration:** Cross-Functional Collaboration, Effective Teamwork, Mentorship, Technical Documentation

EDUCATION

MS in Information Technology and Management
The University of Texas at Dallas
Richardson, Texas

BTech in Computer Science and Engineering
Institute of Engineering and Technology
Lucknow, India

PUBLICATIONS

A Novel Knowledge Distillation Technique for Colonoscopy and Medical Image Segmentation
FICTA2023