Sourabh Kumar Burnwal

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GitHub | LinkedIn | Medium

Infrastructure | Computer Vision | Machine Learning | DevOps | MLOps

Passionate and qualified MLOps and Infrastructure Engineer with a year of experience in scaling computer vision solutions and deploying in production. Proven track record of solving business problems with involvement in development to production and post-production lifecycle of a machine learning product. Looking for an exciting role in the evolving field of Machine Learning Production.

EXPERIENCE

SkyLark Labs

- **Director of Infrastructure**   **Dec 2021-Present**

  - Led the foundation of MLOps in the organisation, currently leading DevOps and MLOps teams of 4

  - Designed and successfully implemented a new improved and lightweight Inference Server architecture for on-premise local deployments

  - Indulged in interdisciplinary meetings including Full Stack, Machine Learning, Business and Sales teams to understand the complete product lifecycle and market compatibility

  - Regular communication with Business team to explain technicality of the products and sales team analysing cost effectiveness

- **MLOps Engineer**   **June 2021-Dec 2021**

  - Worked with Nvidia Triton Inference Server to develop the inference server for all the products

  - Planned and successfully implemented inference server infrastructure for ML models with fail-safe and no down-time using DevOps tools like Docker, and Kubernetes to orchestrate the inference server

  - Developed CI/CD pipelines using Jenkins, implementing Infrastructure as Code using Terraform for AWS

TAKELEAP India

- **Computer Vision Intern**   **Jan 2021-May 2021**

  - Applied various image processing techniques to increase the detection accuracy while making the algorithm more robust

  - Developed a multi-object tracker for counting multiple assets per frame while reducing the number of false detections

- Deployed the product on AWS using Docker, Kubernetes, and Terraform ensuring Load-Balancing, Auto-Scaling, and Reliability for testing

- Developed multiple POCs and working prototypes for the team

SKILLS

- **Machine Learning:** Image Processing, Object Detection, Object Tracking, Deep Learning, Computer Vision
- **MLOps:** Amazon Web Services, Terraform, Git Actions, Jenkins, MLFlow, KubeFlow, Prometheus, Grafana, Triton Inference Server, Docker, Docker Swarm, Kubernetes
- **Programming:** Python, R
- **Database:** MongoDB, MySQL
- **Operating System:** Ubuntu, Fedora, Windows

PUBLICATIONS

- Afzal Ansari, **Sourabh Kumar Burnwal**, "Forecasting, Visualization, and Analysis of Covid-19 in India using Time-Series Modeling", Computational Intelligence and Predictive Analysis for Medical Science, De Gruyter 2021   [Link]

EDUCATION

- **Central University of Rajasthan, Ajmer, India**

  M.Sc. Big Data Analytics   2019-2021

- **Dayalbagh Educational Institute, Agra, India**

  B.Sc. Computer Science Hons.   2016-2019

CERTIFICATION

- **Redhat Certified System Administrator**
  Cred ID: 200-011-559   [Link]