

AJAY KUMAR TYAGI

B.Tech. in Computer Science with Specialization in DevOps

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EXPERIENCE

DevOps Assembly Lines

Linux World Private Limited

May 2020 – July 2020

- A 80 hour industrial training that covers Jenkins integration with Git, Testing Framework PyTest, Maven, Docker and Kubernetes to solve real life use cases under the mentorship of World Record Holder, Mr. Vimal Daga.
- Developed a fully automated Jenkins Pipeline to deploy a web application from GitHub to testing environment and then to production environment while achieving zero down time.

Jenkins

Kubernetes

Docker

Git

Automation

MLOps

Linux World Private Limited

April 2020 – June 2020

- A 120 hour industrial training that covers Data Science integration of Clustering, ANN, CNN, RNN and Transfer Learning with DevOps- Jenkins, Docker, Kubernetes and Git under the mentorship of World Record holder, Mr. Vimal Daga.
- Worked on different datasets and applied different Machine Learning techniques on them.
- Developed a Machine Learning model for facial recognition using Transfer Learning with Binary Crossentropy loss function in VGG16 model.

Machine Learning

Neural Networks

Data Science

DevOps

RedHat Enterprise Linux Automation System with Ansible (RH294)

RedHat

November 2020 – January 2020

- A 32 hour training that covers Provisioning and Configuration Management of instances in Public cloud - AWS and on premises Infrastructure As Code using Ansible dynamic inventory with optimised playbook under the Mentorship of Mr. Vimal Daga.

RedHat

Ansible

Automation

Linux

AWS

EXTRA CURRICULAR

Learner Success Head

- Volunteered to solve management and technical queries under the Linux World Pvt. Ltd. Kubernetes CKAD and CKD program.

Fight Against Misinformation

- Trained 38 people on best practices against misinformation under the NASS-COM Foundation MyKartavya program.

Leadership

Volunteer

Soft skills

Social skills

EDUCATION

University of Petroleum and Energy Studies, Dehradun

B.Tech.(Computer Science Specialization in DevOps) CGPA: 8.0

August 2018 - Present

The Asian School, Dehradun

12th (C.B.S.E.)

Score: 78.6

April 2016 - April 2018

PROJECTS

DevOps Assembly Lines Project

- Created a fully automated pipeline in Jenkins and integrated with Docker to automate the process of deploying web applications on web server.
- Deployed web applications using Kubernetes to make replicas of the web server and act as a load balancer while achieving zero down time.

MLOps Project

- Created a pipeline in Jenkins using Docker to train a Machine Learning model and predict accuracy.
- If accuracy is not high enough, then pipeline will automatically tweak the model and re-train the model until the desired accuracy is achieved.
- Information of the final trained model will be E-mailed to the developer.

Load Balancing System

- Created a load balancing system using socket programming in C language.
- Implemented the project on top of EC2 instance on AWS cloud.

Food Ordering Application for Universities. (On-going)

- Develop a food ordering mobile application that will minimize the food ordering time, eliminate the receipt based system, and will eventually enhance the ordering experience for the customer.

SKILLS

Languages

- Python, Java, Bash Scripting, C/C++, Dart

Software and Tools

- Ansible, Jenkins, Docker, Kubernetes, Git/GitHub, Amazon Web Services (AWS), Terraform, Flutter(Dart) Application Development, Maven, Selenium

OS

- Redhat-8, Windows