

MANOJ PATIL

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Education

KLS Vishwanathrao Deshpande Institute of Technology, Haliyal, Uttarkannada

Bachelor of Engineering (Computer Science), CGPA: 8.67

Dec/2021 – June/2025

Dharwad, Karnataka

Aryabhata PU Science College

Senior Secondary Education, XII-87.16%

2019 – 2021

Dharwad, Karnataka

Internship

HAEGL TECHNOLOGIES PVT LTD

Oct/2024 – Nov/2024

Hubli, Karnataka

- I completed my internship at Haegl Technologies, where I worked on Artificial Intelligence (AI) and Machine Learning (ML) projects. I focused on using the YOLO framework for object detection and image recognition tasks. I learned how to train models with image datasets and improve their accuracy. This internship helped me gain practical experience in applying AI and ML techniques to real-world problems.

Key Deliverables

- Managed AWS services like VPC, EC2, and S3 for hosting applications with secure networking and data management.
- Configured IAM, RDS, Auto Scaling, and Load Balancer for secure access, database reliability, and high availability.
- Automated infrastructure setup using Terraform and Ansible to make deployment faster and error-free.
- Used Docker for containerization and Grafana for monitoring and visualizing system performance.

Projects

End-to-End DevOps CI/CD Pipeline using Jenkins, Docker, and Kubernetes

September/2025

- Developed a complete CI/CD pipeline using Jenkins for automating build, test, and deployment stages.
- Integrated GitHub with Jenkins to automatically trigger builds whenever new code is pushed.
- Created Dockerfiles to build Docker images from the application code.
- Configured Jenkins to build Docker images and push them to DockerHub using credentials securely stored in Jenkins.
- Used ArgoCD to automate deployment from DockerHub to the Kubernetes cluster.
- Deployed the containerized application on Kubernetes, ensuring scalability and easy management.
- Added plugins in Jenkins to connect different tools like GitHub, Docker, and Kubernetes.
- Ensured end-to-end automation, reducing manual steps and improving deployment reliability.

Deployment of a Highly Available and Scalable Website on AWS

October/2025

- Designed and deployed multi-tier architecture using VPC with public/private subnets across multiple AZs.
- Configured EC2 instances with Auto Scaling and ALB for scalability and fault tolerance.
- Implemented Amazon RDS (Aurora) with read replica for high availability.
- Integrated Amazon EFS for shared file storage across web instances.
- Managed domain routing with Route 53 and secured access using IAM roles and security groups.

Technical Skills

- **Compute Services:** EC2
- **Storage Services:** S3, EFS, EBS
- **Networking Services:** VPC, Route 53
- **Monitoring Visualization:** Grafana
- **Database Services:** Amazon RDS, MySQL
- **Security Services:** IAM
- **DevOps Tools:** Docker, Terraform, Jenkins
- **Languages:** Python, C++.

Certifications

- Microsoft Azure **AI Fundamentals**
- Participated in the **AVINYA Hackathon at KLS VBIT**
- Eduskills - **Python Full Stack**
- MicroDegree – **AWS Solutions Architect**
- MicroDegree – **AWS DevOps Internship Program at MicroDegree**