Tunir Wabhitkar

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SUMMARY

MLOps Engineer with 1+ year of enterprise DevOps and cloud infrastructure experience at Capgemini, complemented by a Minor in Artificial Intelligence from IIT Ropar (Grade: A–). Hands-on experience building automated ML pipelines using MLflow and ZenML, covering data preprocessing, model training, experiment tracking, evaluation, and model lifecycle management. Strong foundation in Python, Kubernetes, Docker, Terraform, and CI/CD automation across AWS and Azure. Experienced in production observability, SLO-aligned monitoring, incident response, and cost optimisation. Focused on building reliable, scalable ML and LLM deployment platforms.

SKILLS & CERTIFICATIONS

ML & MLOps: Python, MLflow, ZenML, Experiment Tracking, ML Pipeline Orchestration, Model Training, Model Evaluation, Model Versioning, Model Lifecycle Management, Machine Learning Fundamentals

Cloud & ML Infrastructure: AWS (EKS, ECR, RDS, ElastiCache, Cost Explorer, Budgets, CloudWatch, Secrets Manager, Transit Gateway), Azure, Kubernetes, Docker, Helm, ArgoCD

Infrastructure as Code: Terraform, Terragrunt, Ansible

CI/CD & Automation: GitHub, GitHub Actions, Jenkins, Git, Docker-based Build and Deployment Pipelines

Observability & SRE: Prometheus, Grafana, AlertManager, CloudWatch, Fluent Bit, Azure Monitor, Log Analytics, PagerDuty/Slack Routing, SLO Monitoring, Incident Management

Networking & Security: VPC Peering, Hybrid Connectivity, External Secrets Operator, IRSA, IAM/RBAC, Trivy

Programming, Data & Statistics: NumPy, Pandas, Statistics, Probability, Bash/Shell, PowerShell, C/C++

AI & LLM: LangChain

Collaboration: Confluence, Jira, Agile/Scrum, Technical Documentation, Runbooks, Root Cause Analysis

Certification: Microsoft Certified: DevOps Engineer Expert | Microsoft Certified: Azure Administrator Associate | Claude Certified Architect - Foundations

WORK EXPERIENCE

MLOps Engineer **Aug. 2025 – Present**
Capgemini *Pune,* India

- Provisioned 1,000+ Azure VMs using Terraform and PowerShell, implementing load balancers and IAM-based access controls; maintained infrastructure runbooks across three teams.
- Reduced incident MTTD by 35% through Azure Monitor, Log Analytics, Prometheus, Grafana, and AlertManager, establishing SLO-aligned monitoring and alerting for production infrastructure.
- Maintained 90%+ SLA compliance while responding to production incidents, supporting P1 response, conducting RCA, and providing infrastructure troubleshooting and rightsizing recommendations.
- Reduced deployment cycle time by 40% through Git-triggered Jenkins/Docker CI/CD pipelines, achieving zero cross-team release conflicts over six months.
- Maintained 99% Linux server uptime through Bash-based health checks, Ansible automation, and proactive disk, CPU, and memory resource remediation.
- Reduced new-engineer onboarding time by 30% by authoring 10+ technical runbooks covering incident response, deployment procedures, and infrastructure operations.

PROJECT

Customer Satisfaction Prediction System — End-to-End MLOps Pipeline

- Developed an automated ML pipeline using Python, ZenML, and MLflow to train, evaluate, version, and manage ML models, achieving 93% model accuracy on the evaluation dataset.
- Automated data ingestion, preprocessing, model training, and evaluation through modular ZenML pipeline orchestration.
- Integrated MLflow for experiment tracking, recording model parameters, evaluation metrics, and results to support reproducibility.
- Implemented structured ML workflow stages to reduce manual intervention and establish a repeatable model development and lifecycle management process.

End-to-End DevOps Platform on AWS EKS

- Provisioned multi-AZ VPC, EKS (Kubernetes), ECR, RDS, and ElastiCache using Terraform and Terragrunt; implemented hybrid connectivity via Transit Gateway and VPC peering across dev, staging, and production environments.
- Automated CI/CD for 5+ microservices using GitHub Actions, enabling development engineers to build, scan, deploy, and manage containerised workloads; deployed via ArgoCD and Helm with Trivy scanning and semantic versioning.
- Configured IRSA, External Secrets Operator, non-root security contexts, HPA, and PodDisruptionBudgets; achieved ~20% compute-cost reduction through AWS Cost Explorer-based rightsizing.
- Implemented full-stack observability using Prometheus, Grafana, CloudWatch, Fluent Bit, and AlertManager with PagerDuty and Slack for proactive monitoring and incident response.

EDUCATION

Indian Institute of Technology, Ropar | Sep 2024 – Feb 2026 *Minor in Artificial Intelligence* | **Grade: A–**

- Relevant Computing: Machine Learning Systems, Neural Networks, Reinforcement Learning, Algorithmic Optimization

Puducherry Technological University | Aug 2021 – May 2025 *Bachelor of Technology in Mechanical Engineering* | **CGPA: 7.77 / 10**

- Relevant Coursework: Computational Methods, Object-Oriented Programming, Numerical Analysis, Data Structures

Y.B. Junior College | Aurangabad, India | Apr 2019 – Mar 2021 | Higher Secondary Certificate (HSC) — PCMB | **Score: 93.0% (Ranked 2nd in class of 60 students)**

Kendriya Vidyalaya, Ordnance Factory Chanda | Chandrapur, India | Apr 2018 – Mar 2019 | CBSE Class X (Secondary School Certificate) | **Score: 72.8%**