Om Prakash Swain

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in LinkedIn   🌐 Portfolio   GitHub

Summary

Cloud & DevOps Engineer with hands-on experience in **AWS, Docker, Kubernetes, Terraform, and CI/CD pipelines**. Skilled in deploying and monitoring ML models, automating workflows, and building scalable cloud infrastructure. Passionate about optimizing deployments and ensuring high system reliability.

Education

NIST University   **Nov 2023 – Present**
B.Tech in Computer Science and Engineering   *Berhampur, Odisha*
  − Coursework: Data Structures, Machine Learning, Cloud Computing, Operating Systems, DBMS

Polasara Science College   **May 2020 – May 2022**
Intermediate (CHSE)   *Polasara, Odisha*

Saibani Nodal High School   **May 2018 – May 2020**
Matriculation (BSE)   *Ganjam, Odisha*

Experience

Cloud Computing Intern   **May 2025 – Jun 2025**
NIST University   *Odisha, India*
  − Designed and managed cloud infrastructure using **AWS EC2, S3, IAM** for deploying ML and web applications.
  − Automated CI/CD pipelines using **GitHub Actions** and **Docker**, reducing deployment time by 40%.
  − Implemented monitoring and logging for deployed applications using **AWS CloudWatch** and dashboards.

Projects

End-to-End ML Model Deployment with CI/CD (AWS EC2, Docker, GitHub Actions, Flask)   **Aug 2025**
  − Trained predictive ML model using **Scikit-learn** and containerized it with **Docker**.
  − Built CI/CD pipeline using **GitHub Actions** to automate testing and deployment on **AWS EC2**.

Real-Time Sentiment Analysis API (Python, FastAPI, AWS Lambda, Terraform)   **Jul 2025**
  − Developed REST API for real-time sentiment analysis using **NLP techniques**.
  − Deployed serverless API on **AWS Lambda** with **API Gateway** and automated infrastructure using **Terraform**.

MLOps Pipeline for Model Training & Monitoring (MLflow, Docker, Jenkins, AWS S3, SageMaker) **Jun 2025**
  − Created reproducible MLOps pipeline using **MLflow** for model training and versioning.
  − Automated build and deployment using **Jenkins pipelines**, storing artifacts on **AWS S3** and deploying on **SageMaker**.

Cloud-Based Image Classification App (TensorFlow, Flask, Docker, Kubernetes, AWS EKS) **May 2025**
  − Developed CNN-based image classifier using **TensorFlow** and containerized with **Docker**.
  − Deployed on **AWS EKS** with auto-scaling and load balancing.

Automated Data Pipeline for AI Model Training (Apache Airflow, AWS S3, Python, EC2)   **Apr 2025**
  − Automated data ingestion and preprocessing using **Apache Airflow DAGs**.
  − Stored datasets on **AWS S3** and triggered scheduled model retraining on **EC2**.

Technical Skills

- **Cloud & DevOps**: AWS (EC2, S3, Lambda, SageMaker, EKS, IAM), Docker, Kubernetes, Jenkins, GitHub Actions, Terraform

- **AI/ML**: Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, OpenCV

- **Programming & Scripting**: Python, Bash, SQL, YAML, JSON

- **Data & Monitoring**: Power BI, Tableau, Prometheus, Grafana

- **Concepts**: CI/CD pipelines, Infrastructure as Code (IaC), MLOps, Cloud Security, Version Control (Git)

Certifications

- AWS Academy Cloud Foundations – Amazon Web Services (2024)

- Machine Learning with Python – Coursera (2024)

- (Optional) AWS Certified Solutions Architect / Developer (In Progress)

- (Optional) Terraform Associate (In Progress)

Leadership & Extracurricular

Core Member   **Sep 2024 – Present**
NIST Cloud Computing Club   *Berhampur, Odisha*
- Led 5+ cloud workshops and hackathons for 300+ students, mentoring on **AWS, Docker, and Kubernetes**.
- Coordinated 30+ technical workshops, facilitating sessions with industry experts.