NIRANJ PATEL

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Summary

Results-driven **MLOps Engineer with 3+ years** of experience automating and deploying scalable ML pipelines across cloud platforms. Skilled in IaC, model lifecycle management, and edge AI deployment. Expertise in data engineering (Apache Airflow, Spark, Kafka) and real-time monitoring (Prometheus, Grafana). Improved deployment speed by 40%, model accuracy by 25%, and reduced cloud costs by 30%. Specialized in NLP and text-to-speech, with a focus on automation and cross-functional collaboration.

Education

Master of Science in Computer Science (GPA: 3.57) **Aug 2022 - May 2024**
California State University, San Bernardino, USA

Bachelor of Engineering in Computer Engineering **Aug 2017 - May 2021**
Gujarat Technological University, Ahmedabad, India

Skills

- **Programming Languages:** Python, SQL, Bash
- **Machine Learning Frameworks:** PyTorch, Scikit-learn, Seaborn, Pandas, Hugging Face
- **MLOps & Model Lifecycle Management:** Model deployment, version control, automation, monitoring, and model lifecycle management (MLflow, DVC, Airflow)
- **Containerization & Orchestration:** Docker, Kubernetes, Helm
- **Cloud Platforms:** AWS (EC2, S3, SageMaker), Azure (ML Studio, Databricks), Google Cloud (Vertex AI, GKE)
- **DevOps & CI/CD:** Jenkins, GitLab CI/CD, CircleCI, GitHub Actions
- **Infrastructure as Code (IaC):** Terraform, Ansible, CloudFormation
- **Monitoring & Logging:** Prometheus, Grafana,
- **Data Engineering:** Apache Airflow, Apache Spark, Kafka, ETL/ELT Pipelines
- **Database Management:** MySQL, MongoDB
- **AI Specialties:** Natural Language Processing (NLP), Text-to-Speech Synthesis
- **Certifications:** Build 2024 Gen AI Bootcamp, MLOps Foundations

Experience

Vosyn , USA **Nov 2024 - Current**
MlOps Engineer

- Build and manage scalable, end-to-end MLOps pipelines using , PyTorch, and Scikit-learn. Ensure seamless model training, validation, deployment, and monitoring across production environments.
- Design and implement scalable and robust ML pipelines for automating model deployment and updates.
- Implement model monitoring strategies to track performance in production (e.g., model drift, data drift, and prediction quality).
- Participated in weekly Agile sprints, providing input on user stories, sprint planning, and retrospectives to improve team collaboration and development efficiency.
- Develop and maintain infrastructure for MLOps using tools like Kubernetes, Docker, Terraform, and cloud-native services (AWS, Azure, GCP).
- Work closely with data scientists, software engineers, and DevOps teams to ensure models are seamlessly integrated into the production environment.

Hoosier Community Network, Bloomington, IN **Aug 2024 - Nov 2024**
MLOps Engineer

- Leveraged AWS services (S3, Lambda, EC2, SageMaker) to build and maintain scalable, fault-tolerant machine learning systems in production environments.
- Utilized Azure Databricks for scalable data processing, advanced analytics, and collaborative model development across large datasets.
- Created comprehensive documentation for model deployment processes, monitoring workflows, and system architecture.
- Improved model monitoring processes, resulting in a 20% reduction in model performance degradation incidents.
- Designed, developed, and maintained CI/CD pipelines for seamless model deployment using Jenkins, GitLab CI, and Kubernetes.

Intex Technologies , India **Aug 2020 - Jul 2022**
MLOps Engineer

- Partner with data scientists, software engineers, and business stakeholders to align MLOps practices with organizational goals. Facilitate smooth collaboration through clear documentation and agile methodologies.
- Ensure robust model tracking and reproducibility using MLflow and DVC. Implement best practices for model governance, auditing, and lifecycle management to ensure compliance and operational integrity.
- Monitor and optimize resource consumption across cloud environments, ensuring efficient model training and deployment without compromising performance or cost-efficiency.
- Implement robust security protocols for model access, data encryption, and pipeline integrity. Ensure compliance with industry regulations and best practices for machine learning operations.