

SURAJIT KUNDU

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Address: Amsterdam, Netherlands

Experience Summary:

- Skilled MLOps Engineer with 11 Years of experience in designing, building and optimising the ML Solution for Production
- Experienced in CICD, configuration management, ML Lifecycle, MLOps and LLMOps
- Experienced in building Infrastructure to scale models to serve millions of users.

Skills:

- **End-to-end ML lifecycle** including model training, inference, Deployment, Governance, Monitoring.
- **Platform and Ops** AWS, Azure, IaaS, Sagemaker, Terraform, Cloudformation, GithubActions, Jenkins, Kubernetes, API ECS, EKS, SignalFx.
- **Languages and frameworks** Python, Java, Tensorflow, Pytorch
- **GenAI** Bedrock, LangChain
- **Distributed Computing**- Spark, Hadoop ecosystem, Databricks
- **AB Testing**, Blue Green , Canary Deployment

Work Experience:

Nike Lead MLOps Engineer

Location: Netherlands
Dec 2022 to Present

Responsible for MLOps Strategy and Delivery of Nike EMEA for 10 products including Batch (Forecast) and Online Inference (Product Recommendation), Migrating all the products to AWS Sagemaker

Actions Taken:

- Developed a standardized **ML project template** to ensure consistency across all projects.
- Designed a modular **ML system** with building blocks tailored for each product.
- Designed and implemented a comprehensive **model monitoring** service utilized by all products.
- **Collaborated with global teams** to maintain consistent standards across different geographical regions.
- Revamped the **recommendation pipeline**, incorporating **TensorFlow** Query Candidate
- Engineered **scalable infrastructure** to support high-volume recommendation delivery.
- Conducted **A/B testing** on various model versions using Optimizely.
- Created reusable **CI/CD pipeline**, significantly reduced time-to-market for ML products.
- Developed a **SignalFx dashboard** to monitor **pipeline health** and **quality metrics**.
- Enabled **GenAI** capabilities on **AWS Bedrock**, deploying the first GenAI application to assist the SageMaker Support Team with an internal chatbot.
- Led recruitment efforts to hire new talent.

DAZN (OTT Sports)
Lead Machine Learning Engineer

Location: Netherlands
Oct 2020 to Nov 2022

Responsible for delivering ML applications to improve the Customer Experience as well as internal operation. The ML Products where **Content Recommendation, Smart Scaling, Next Best Action**

Actions Taken:

- Used the Tensorflow **Query Candidate** and **Ranking** to generate the Recommendation
- Built the Sagemaker Pipeline for **Content Recommendation** as well as **Smart Scaling**
- Design **REST APIs** to Serve the Ranking model in Real time.
- Manage the infrastructure to handle the peak traffic of **16000 RPS** with **100 ms** latency
- Designed and built the **Feature Store** to store the Query Candidate output
- Make Sure **100% test coverage** with Coverage report delivered to Every PR
- Design the **Feature Engineering** Pipeline as well as Training Pipeline.
- Troubleshooting the issues in the production app (**Smart Scaling , Recommendation**)
- Model **Retraining** and **Redeployment** on a regular interval.
- Manage **Stakeholders communication** and prioritize the tasks.
- Present changes to the CAB meeting
- **Code Reviews** and guiding junior team member
- Hire new talent

ASML
Sr. Data Engineer

Location: Netherlands
Jan 2019 to Sept 2020

- Design and Build python code for ETL.
- Test Driven development in Python with Test coverage.
- Build CICD Pipeline to automate deployment.
- Build docker containers for easy to manage the python libraries.

TCS, Saama Technology & Syntel Pvt LTD
Data & Cloud Engineer

Location: India
Jan 2013 to Dec 2018

- Implementing a Global Data lake in AWS S3.
- Write ETL logic using AWS Glue with Python and PySpark backend.
- Automate provisioning AWS services using Cloud Formation template and CLI.
- Build data virtualization using S3, Athena, SAP BO.
- AWS Services: VPC, Subnet, EC2, S3, Lambda, Cloud Formation, SNS, Cloud Watch, Glue, Redshift, RDS, Athena, Python.

Education & Certification Details:

Title	Version
Bachelor Of Technology	2008-2012
ITIL 2011 Foundation	3
AWS Certified Associate Developer	