

# SHUDHATMA JAIN

## Senior Machine Learning Engineer (MLOps Engineer)

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Kadubeesanahalli  
shudhatmajain

Bengaluru, Karnataka

## EXPERIENCE

### Senior Machine Learning Engineer

#### Quantiphi

Aug 2022 – Ongoing

Bengaluru, Karnataka

- Led a 3-member team to streamline the ML process through the seamless integration of MLOps, leveraging Azure DevOps for CI/CD. Achieved a 50% reduction in model training costs by automating data preprocessing, model training, and one-click deployment to production via Sage-maker pipelines. It helped in automating all the existing ML Models in the pipelines to be easily managed by a single person.  
**Tech Stack** - Sagemaker Studio, Sagemaker Pipelines, Docker, Azure Devops, Python, S3, AWS ECR, Tensorflow, HuggingFace, Docker
- Optimized the built-in extraction algorithm, which led to a 5 percent reduction in pipeline failures attributed to memory errors.  
**Tech Stack** - AWS Lambda, Python
- Ideated on robust data metrics enabling seamless tracking of pipeline precision, recall, and data drift, alongside precise model performance assessment.  
**Tech Stack** - CronJob, AWS Lambda, Amazon CloudWatch
- Mentored and trained over 5 Machine Learning Interns, in Python programming and the essential Machine Learning concepts, aiding their successful integration into the company's onboarding process.
- Developed a learning path for colleagues transitioning from the role of Data Engineer to Machine Learning Engineer.

### Machine Learning Engineer

#### Quantiphi

Dec 2020 – July 2022

Bengaluru, Karnataka

- Engineered and operationalized an advanced information extraction model, streamlining entity extraction processes to enhance efficiency for downstream tasks, achieving F1-Score of 85%.  
**Tech Stack** - Huggingface, Pytorch, Python, Sagemaker Pipelines, Docker.
- Designed an embedded document classification algorithm, achieving an exceptional 98% F1-score.  
**Tech Stack** - Tensorflow, Docker, Sagemaker Endpoint, Python
- Developed a data visualization web application using Dash and Plotly to facilitate project analysis and metric comparison, enabling assessment of the impact of changes to the codebase.  
**Tech Stack** - Python, Dash, Plotly

### Trainee R&D Engineer

#### EXACKT TECHFLEETERS PVT LTD

May 2019 – Jul 2019

Jaipur, Rajasthan

- During the internship worked on a Face Recognition System on real time webcam feed. Used opencv for detecting faces which were finetuned on Facenet Model and hard triplet mining to recognize faces based on the available dataset.  
**Tech Stack** - Tensorflow, Python, Jupyter Notebook.

## ACHIEVEMENTS



#### Won Group of Talent Awards

for the 30 most exceptional employees in the organization.



#### Team Work

Received the Kingsmen Award for contributing to the most impactful project in the organization.



#### HardWork & Persistence

Cleared JEE Advanced in the first attempt with a selection rate of 1%.

## CERTIFICATIONS

- AWS Certified Solutions Architect - Associate.
- GCP Cloud Certification - Foundational level.

## TECHNICAL SKILLS

Python HuggingFace Pytorch Tensorflow  
ML AWS MLOps SQL Pandas  
Numpy GenAI Docker Microsoft Excel

## STRENGTHS

Hard-working Team Player  
Communication

## LANGUAGES

Hindi  
English



## EDUCATION

### B. Tech. in Electrical Engineering

#### IIT Dhanbad

Aug 2016 – July 2020 7.18 CGPA