



# AKSHAY KUMAR

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## Professional Summary

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Cloud & Databricks AI/ML Platform Engineer with 7+ years of experience designing and scaling enterprise-grade cloud, data, and machine learning platforms across Azure, AWS, and GCP. Strong expertise in cloud infrastructure architecture, Infrastructure as Code (Terraform), CI/CD automation, security, and governance, combined with hands-on experience in MLflow-driven MLOps, Azure Databricks, model deployment, monitoring, and automated drift detection. Proven ability to deliver production-ready AI and ML platforms across the full lifecycle—from scalable cloud foundations to real-time model serving and Generative AI integration.

## Experience

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Morgan Stanley | Bengaluru, India  
**Director, Cloud & ML Platform**  
08/2022 - Current

- 7+ years of experience designing, deploying, and operating **end-to-end Azure cloud infrastructure** for ML and data platforms, including **Compute, Storage, Networking, Identity, Monitoring, Security, and Analytics**.
- 5+ years of experience in **Azure Databricks platform and architecture engineering**, enabling scalable data pipelines, distributed training, feature engineering, and ML workloads using Spark-based ecosystems.
- 5+ years of hands-on experience in **Machine Learning and MLOps Engineering**, covering model development, training, experimentation, validation, deployment, monitoring, versioning, and end-to-end ML lifecycle management.
- Strong hands-on experience with **Azure Data Lake Gen2, Azure Data Factory, Azure SQL Data Warehouse, Azure Blob Storage**, and Storage Explorer for large-scale data ingestion, feature pipelines, and ML-ready datasets.
- Extensive experience implementing **Infrastructure as Code (IaC)** using **Terraform (modular design)**, along with **Azure CLI, PowerShell, and Databricks CLI**, to provision reproducible ML infrastructure and environments.
- Proven experience with **DevOps and MLOps orchestration tools**, including **Azure DevOps Services, Jira, GitHub, Bitbucket/Stash**, and workflow schedulers such as **Apache Airflow and Autosys** for ML pipeline automation.
- Designed and operationalized **ML pipelines with feature stores, model serving APIs, drift detection, and canary deployments** to ensure reliable production inference.
- Implemented **A/B testing and canary deployment strategies** to safely roll out ML models while continuously monitoring performance and drift.
- Hands-on experience building and consuming **Python APIs (REST 2.0/2.1)** and Python SDKs to automate **Databricks operations, feature engineering pipelines, and ML workflows**.
- Experience working with **Snowflake, Azure SQL, and Confluent Kafka** for batch and streaming ML data pipelines, along with **Power BI, Power Apps, and Power BI Desktop** for analytics and operational insights.
- Strong knowledge of **Machine Learning algorithms** (classification, regression, clustering, ensemble methods (i.e : Random Forest ) neural networks) and **MLOps best practices**, using **Python, NumPy, Pandas, Spark, scikit-learn, XGBoost, TensorFlow (2.16.x), PyTorch, and R**.
- Hands-on experience with **Deep Learning, NLP, Computer Vision, and Generative AI**, including **Transformer architectures, BERT-style models,**

and **LLM-based workflows** integrated with cloud platforms.

- Experienced in designing **scalable ML-ready data architectures**, including cloud and hybrid data lakes, feature engineering pipelines, data preprocessing, EDA, data quality checks, and data governance frameworks.
- Strong experience deploying **ML engineering solutions across Azure, AWS, and GCP**, with hands-on use of **MLflow** for experiment tracking, model registry, model versioning, and **production deployments (Databricks-native MLOps)**.
- Practical exposure to **Generative AI and LLM use cases**, including experimentation with **GPT-4, Gemini, and Databricks LLM frameworks (DBX)** for enterprise AI solutions.
- Hands-on experience with cloud-native **AI/ML platforms**, including **AWS SageMaker and Google Vertex AI**, supporting training, inference, and model lifecycle automation.
- Demonstrated ability to **build, mentor, and lead engineering teams**, owning initiatives across **Cloud Engineering, DevOps, Data Engineering, ML Engineering, and MLOps**.
- Strong experience creating **CloudOps, DataOps, and MLOps documentation**, including architecture designs, model lifecycle documentation, operational runbooks, governance standards, and SOPs for technical and non-technical stakeholders.

KPMG Global Services,KGS | Bengaluru,  
India

**Consultant**

04/2020 - 08/2022

- 4+ years of hands-on experience working with the **Azure cloud platform**, delivering and managing **IaaS and PaaS** resources and services.
- Automated repetitive operational tasks using **PowerShell scripts**, integrated with **Azure DevOps pipelines** and **Azure Automation**.
- 4+ years of experience deploying infrastructure on **Azure and AWS** using **CI/CD pipelines** for consistent and repeatable releases.
- Installed, configured, and deployed software updates to node machines using **Desired State Configuration (DSC)**.
- Monitored system and application performance using **Azure Monitor, Log Analytics, Kusto (KQL) queries, and workbooks**, creating dashboards and alerts; also worked with **Datadog** for monitoring and alerting.
- Strong understanding of **ITIL processes**, with hands-on experience using **ServiceNow** for **Incident, Change, RITM**, dashboards, and task automation.
- Worked in an **Agile environment** using **Azure Boards** for sprint planning, tracking, and delivery.
- Experience deploying and administering **Azure Databricks** environments.
- Hands-on experience in **Cloud Security**, addressing Microsoft and third-party vulnerabilities using **Qualys**, integrated with **Microsoft Defender for Cloud (MDFC)**.
- Worked with **Azure App Services, Azure Container Registry (ACR), and Azure Container Instances (ACI)**.
- Designed and implemented **real-time data streaming pipelines** using **AWS Kinesis Data Streams, Kinesis Data Analytics, and Kinesis Data Firehose** to deliver data for visualization and analysis.
- Configured **Amazon OpenSearch (Elasticsearch)** to consume streaming data from Firehose, visualized using **Kibana**, and stored data in **Amazon S3**.
- Worked with **MongoDB Atlas (Cloud)** to ingest and process **JSON/CSV data** for aggregation and visualization; also deployed **AWS DocumentDB** clusters compatible with MongoDB workloads.
- Used **AWS CloudFormation (JSON templates)** to automate infrastructure provisioning and manage reusable stacks.
- Developed and deployed **AWS Lambda** functions as compute services integrated with streaming pipelines.
- Trained and worked with **AWS and Azure AI/ML services**.

Renovision Automation Services Pvt Ltd  
(Citrix) | Bangalore, India  
**Desktop Support L3**  
06/2018 - 03/2020

**Azure Cloud Operations Engineer**  
*Azure IaaS/PaaS, AKS, CI/CD, Monitoring, ITIL, Linux/Windows*

IMSI(IBM) | Bangalore, India  
**Desktop Engineer**  
01/2018 - 04/2018

**Linux & macOS Systems Specialist**

Netconnect(IBM) | Bangalore, India  
**Desktop Support Engineer**  
09/2017 - 01/2018

**Linux & macOS Systems Specialist**

## Skills

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- Azure cloud infrastructure
- MLOps engineering
- Data pipeline automation
- Infrastructure as code
- Machine learning algorithms
- DevOps practices
- Agile methodologies

## Education

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AMC Engineering College | Bengaluru, KA  
Bachelor of Engineering - BE, Information Technology,  
2017

Bihar Board Secondary Education | Bihar  
**12th** in PCM  
2013

Central Board of Secondary Education | Bihar  
**10th** in PCM  
2010

## Certifications

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Microsoft Certified: Azure Solutions Architect Expert  
Microsoft Azure (Admin, Developer, AI)  
Databricks (GenAI, Architect)  
Dataiku (ML & MLOps)  
Oracle Cloud (GenAI)

## Promotion

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- Associate Consultant to Consultant in KPMG
- Manager to Sr. Manager in Morgan Stanley

## PROFILES

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LinkedIn : [www.linkedin.com/in/iakshaykr/](https://www.linkedin.com/in/iakshaykr/)  
Github : [https://github.com/iakshaykr/AI\\_ML](https://github.com/iakshaykr/AI_ML)

## HONORS-AWARDS

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Best Employee & profitable for Organisation  
Issued by Citrix · Aug 2019  
Rising Star Award  
Issued by KPMG Global Services (KGS) · Sep 2020