

NITIN KHANEJA

AI & Data Platform Engineer | MLOps | LLMOps | DataOps | DevOps | GenAI | AWS | Azure | Databricks | Kubernetes

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PROFESSIONAL SUMMARY

AI & Data Platform Engineer with 8+ years of experience spanning Cloud Engineering, DevOps, Infrastructure Automation, DataOps, MLOps, LLMOps, and AI/GenAI platform engineering. Experienced in designing and operationalizing scalable cloud and data solutions across AWS and Microsoft Azure, with hands-on expertise in Databricks, CI/CD, Terraform, Kubernetes (K8s), Docker, Containerization, Python, and serverless technologies. Delivered enterprise data and ML platforms across multiple environments, including production ML deployments and automated data-platform workflows. Built GenAI solutions using LLMs, RAG, vector databases, and AI agents, applying platform engineering and automation practices to AI workloads. Strong track record of improving deployment reliability, reducing manual effort, and delivering production-grade solutions across application, data, ML, and AI workloads.

TECHNICAL SKILLS

AI / GenAI: LLM Applications, Generative AI (GenAI), Retrieval-Augmented Generation (RAG), AI Agents, Vector Databases, Prompt Engineering, GenAI Platform Engineering

MLOps & LLMOps: ML Lifecycle Management, Model Packaging, Model Deployment, Batch & Real-Time Inference, ML CI/CD, LLM Application Deployment, Model Monitoring

Data Engineering & DataOps: Databricks, Spark/PySpark, Azure Data Factory, Azure Synapse, ETL Orchestration, Data Pipelines

DevOps & DevSecOps: CI/CD, Azure DevOps, Git, YAML Pipelines, Release Automation, Environment Promotion, Infrastructure as Code (IaC)

Cloud & Platform Engineering: Amazon Web Services (AWS), Microsoft Azure, Cloud Architecture, Serverless, Cloud Automation, Platform Engineering

Infrastructure: Terraform, Kubernetes (K8s), Docker, Containerization

Programming & Automation: Python, SQL, Shell Scripting

APIs & Applications: REST APIs, Azure Functions, AWS Lambda, API Gateway, Flask, Streamlit

Security & Monitoring: Azure Active Directory (Azure AD / Entra ID), AWS IAM, Azure Monitor, AWS CloudWatch, DevSecOps

Ways of Working: Agile/Scrum, Stakeholder Management, Cross-Functional Collaboration, Solution Design, Technical Documentation, Mentoring

PROFESSIONAL EXPERIENCE

Deloitte Consulting India Pvt Ltd

AI and Data Solutions Engineer | Gurgaon | May 2021 - Present

- Designed and operationalized an enterprise MLOps framework across 5+ ML use cases, standardizing experimentation, model packaging, and deployment workflows while reducing deployment cycle time by 50%.
- Implemented CI/CD for ML components using Azure DevOps and centralized Azure DevOps Artifacts to version and distribute Python packages across pipelines and environments, reducing manual integration effort by 20%.
- Deployed ML models to Kubernetes for batch and real-time inference, supporting production workloads with 100K+ inferences per month and enabling scalable, controlled model rollouts.
- Delivered enterprise DataOps solutions across Ebusiness and CX platforms, establishing CI/CD standards and operational frameworks for 2,000+ data pipelines across 3 environments.
- Built an LLM-based incident-assist capability that analyzes historical ServiceNow incidents and remediation patterns to recommend incident resolutions, improving support-team productivity by 30%.
- Developed an automated AI documentation agent for ADF pipelines, SQL objects, and Databricks notebooks, generating documentation for 5,000+ assets and reducing manual documentation effort by 50%.
- Built a RAG-based "Talk to Code" chatbot using a Databricks vector database populated with 5,000+ generated knowledge documents, enabling natural-language access to code and platform knowledge.
- Built secure Streamlit-based applications for data exploration and ML inference, implementing authentication and security controls for self-service access to ML insights.
- Defined and implemented a DevSecOps and deployment-governance framework across Azure Data Factory, Databricks, Synapse, SQL Server, Function Apps, and Logic Apps, reducing deployment defects by 50%.

Brainscale Inc

Cloud Automation Engineer / DevOps Engineer | Noida | Oct 2019 - May 2021

- Delivered Infrastructure as Code using Terraform to provision and manage cloud resources across 3 environments, reducing manual provisioning and improving deployment consistency.
- Designed and implemented RESTful APIs using Azure Functions to support scalable serverless integrations for business applications.
- Built Azure Functions-based web-scraping and data-extraction solutions, automating ingestion and integration with downstream business workflows.
- Deployed and managed Azure Windows Virtual Desktop (WVD) with automated provisioning triggered through web-form submissions, improving operational efficiency and user onboarding.

- Implemented Azure DevOps CI/CD pipelines for Terraform, Azure Functions, and application components, automating build, validation, and deployment across 2 environments and reducing release time by 40%.
- Implemented release governance using approval gates, artifact versioning, and environment-specific configurations, improving deployment reliability and auditability.

Tech Mahindra Limited

Software Engineer - DevOps, Network & Cloud Automation | Noida | May 2018 - Oct 2019

- Built and orchestrated lifecycle promotion of Azure data-engineering assets across environments using Azure DevOps CI/CD pipelines with automated validations and test cases.
- Developed an inventory solution for Cisco IOS devices and automated network configuration changes using Ansible based on service requests, reducing manual effort and improving operational turnaround time.
- Automated service-request-driven network operations across 5+ recurring operational tasks per month, accelerating fulfillment and improving operational efficiency.

Compunnel Digital (Infopro Learning)

Cloud Engineer | Noida | Dec 2017 - May 2018

- Maintained high-availability AWS infrastructure across multiple accounts and client environments, supporting reliability, scalability, and operational continuity.
- Resolved infrastructure outages and production incidents within SLA timelines across Windows and Linux environments, improving service stability and minimizing downtime.
- Automated Windows and Linux patch management using AWS Systems Manager, reducing manual intervention and improving maintenance and compliance processes.

CERTIFICATIONS

AWS: AWS Certified Solutions Architect - Associate (SAA-C03), AWS Certified Cloud Practitioner (CLF-C02)

Microsoft Azure: Azure Solutions Architect Expert (AZ-305), DevOps Engineer Expert (AZ-400), Data Engineer Associate (DP-203), Developer Associate (AZ-204), Security Engineer Associate (AZ-500), Azure Administrator Associate (AZ-104), Azure Fundamentals (AZ-900), Azure Data Fundamentals (DP-900)

EDUCATION

Bachelor of Technology (B.Tech), Computer Science & Engineering | I.K. Gujral Punjab Technical University | 2013 - 2017