RIDDHI KUMARI SINGH

SDE | Expert in MLOPS & LLMOps & Platform Engineering | AI/ML & Solutions Engineer | Scalable Data & ML Solutions| Building Scalable Solutions & Platform in Cloud Environments | Architecture & Infrastructure Design| AWS, AZURE

PROFILE

Worked in enterprise projects over 4.5+ years as a Full Stack Developer, including scalable platforms for large enterprises, 2+ AIOps & MLOps solutions, machine learning integrations, computer vision applications and generative AI-based platforms.

CONTACT

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EMAIL

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LOCATION

Bangalore, Karnataka

EDUCATION

**Master of Technology - Cloud Computing
Indian Institute of Technology, Patna**
Mar 2023 – Aug 2025

**Bachelor of Technology - Information Technology
Banasthali Vidyapith, Jaipur**
July 2017 – June 2021

LINKEDIN PROFILE
https://www.linkedin.com/in/riddhi-kumari-singh/

WEBSITE
https://riddhiksingh8.github.io/riddhiksingh/

GITHUB LINK
https://github.com/riddhiksingh8

CERTIFICATES
M001: MongoDB Developer
M100: MongoDB SQL Pro
Python with Data Science Machine Learning

WORK EXPERIENCE 4.5+ YEARS

**Ernst & Young LLP
Senior Consultant
Apr 2024– Present**

Primary focus Platform & Solution Engineering, MLOps, and Data Architecture. Developed scalable data pipelines and microservices with Python, TypeScript, FastAPI, and Flask.Contributed to enterprise analytics and LLM/Neo4j integrations. Managed CI/CD pipelines on Azure and defined architectural best practices.

SecLogic INC– Software Development Engineer
Jan 2023– Mar 2024
Primary focus on Software Development, Cybersecurity, and Data Analysis. Designed and implemented secure APIs for integrating threat intelligence into platforms. Contributed to the development of security automation scripts, streamlining vulnerability management and patch deployment.

Theecode Technologies Pvt Ltd – Software Development Engineer
Oct 2021– Dec 2022
Primary focus on Development, Data Analysis, and Computer Vision. Applied computer vision algorithms for accurate motion tracking and analysis. Built and managed data pipelines for processing sensor data, demonstrating expertise in system scalability, data-driven insights, and integrating computer vision with real-time data.

SKILLS

ENVIRONMENTS
AWS Azure GCP

MLOPS PLATFORMS
Databricks Sagemaker Kubeflow
Sagemaker Studio Microsoft Fabric
Domino Google Vertex Azure AI Foundry

CONTAINERS
Docker Singularity Amazon Elastic
Container Service ECS Elastic Kubernetes
Service EKS Google Kubernetes Engine
Azure Kubernetes Service

LANGUAGES
Python Javascript React JS Node JS
Express JS Play Framework Flask FAST
API Django bash script shell AWK Sed
Gunicorn Uvicorn Nginx

INFRASTRUCTURE AS CODE
Terraform Cloud Formation

VISUALIZATION
Matplotlib seaborn Tableau Grafana
Quicksight D3 JS

OS
Linux Unix Windows mac

DATABASES & STORAGE
Postgres MONGODB Neo4j Redis Azure
SQL Database Data Lake AWS S3 Google
cloud storage Azure blob RabbitMQ
Celery

NETWORKING
VPC Subnet –
Public/Private DNS IPSec NAT
Gateway Internet Gateway Transit
Gateway AutoScaling IPv4 IPv6 Ngnix

**AI/ML Pytorch Sklearn TensorFlow
Hugging Face NLP Computer Vision**

WORKFLOW & MONITORING & CI/CD
GitHub Actions DataDog Airflow Step
Functions Kubeflow Pipeline AWS
CloudWatch

SOME LEADING BRANDS WORKED WITH

EY

AstraZeneca

gsk

aramco

Walmart

WORKED IN ENTERPRISE PROJECTS SUCH AS PLATFORMS FOR LARGE ENTERPRISE, AIOPS & MLOPS, ML Solutions, Computer Vision Project and Gen AI Projects.

MLOPS Platform	Gen AI Project	MLOPS Domain Implementation
Description - Implemented a scalable CI/CD pipeline using AWS (RDS, EMR, Sagemaker, EKS, ECR). Used federated IAM for secure cross-account access. Automated infra via Terraform & CloudFormation. **Outcome & Impact:** Reduced deployment time, improved security and compliance. Scalable, cost-efficient architecture. **Key Technologies:** AWS, Terraform, CloudFormation, IAM, Sagemaker.	**Description** - Built an API-driven doc retrieval solution using Azure OpenAI (GPT-3.5, 4) + vector DB. Stored model checkpoints in S3. **Outcome & Impact:** Improved semantic search & doc response accuracy. Boosted productivity for knowledge tasks. **Key Technologies:** Azure OpenAI, GPT-4, Faiss, FastAPI, S3	**Description** - Automated tuning via AWS Sagemaker & Step Functions triggered by S3 uploads and CloudWatch. Infra as code using CloudFormation. **Outcome & Impact:** Enabled continuous optimization of ML models with minimal manual input. Faster, efficient model cycles. **Key Technologies:** AWS Sagemaker, CloudWatch, Step Functions, S3

Cloud Infrastructure / DevOps	Data Engineering / NLP	Full-stack Engineering / Risk Intelligence
Description - Containerized microservices for real-time supplier/news analysis using FastAPI, Node.js, React. Deployed on Azure VPS via docker-compose with centralized Nginx proxy. **Outcome & Impact:** Reduced manual workload, improved compliance & screening efficiency. Modular & secure platform. **Key Technologies :** FastAPI, Node.js, React, Docker, Azure VPS, Nginx.	**Description** - Real-time Python-based scraping engine with NLP for sentiment classification. Visualized data via custom dashboard. **Outcome & Impact:** Increased scraping efficiency by 5–6%. Actionable insights for marketing and PR teams. **Key Technologies :** Python, Requests, NLP, Matplotlib, Dash.	**Description** - Built a Flask + Next.js app for 3rd-party risk tracking. Used RocketReach data, dynamic scorecards, deep-dive pages. **Outcome & Impact:** Enabled real-time risk insights. Transformed manual checks to a live system. Improved agility. **Key Technologies :** Flask, Next.js, RocketReach, Azure, Cloud Deployment.

Generative AI / Cloud nfrastructure	Data Engineering / Computer Vision	Cloud Security / SaaS
Description - Built a Flask + Next.js app for 3rd-party risk tracking. Used RocketReach data, dynamic scorecards, deep-dive pages. **Outcome & Impact:** Bridged user creativity and visual AI. Scalable, educational and commercial use-case. **Key Technologies :** Stable Diffusion, Docker, React, FastAPI	**Description** - Parsed XML motion data using Python. Used DTW to analyze user movement. Mobile frontend with React Native. **Outcome & Impact:** Boosted fitness feedback accuracy. 90% efficiency in exercise consistency. **Key Technologies :** Python, DTW, React Native, Cron, AWS EC2	**Description** - Built a cloud-native security product (CYBERQ SHIELD & ORO) for risk scoring and misconfig detection. Full-stack + CI/CD. • **Outcome & Impact:** Reduced incidents by 60%. Delivered real-time contextual threat insights. • **Key Technologies :** Django, React, Postgres, AWS, OAuth, D3.js

PROFESSIONAL ACHEIVEMENTS

- Got **Emerging Extraordinaire** award in first 6 months for my contributions in projects within a Fortune 500 company in EY

- Got **Benepik Plus Gift Card** / amazon coupon for outstanding performance at GSK.

- Participated in www.Guvi.in code kata competition and got first place for Solving Java puzzle's and for later use stored in GitHub - https://github.com/riddhiksingh8 They offered me to recommendation of suitable internship's and jobs Interview's.

- Became first Microsoft Student Ambassador where hosted 6 events on Azure.

- Awarded **"Excellence Award"** for exceptional project delivery within 6 months in EY.