

# Divesh Kumar

**Solution Engineer | Full-Stack | DevOps | AWS | Azure | Python | Terraform | Kubernetes | CI/CD**

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## Profile Summary

**Passionate Solution Engineer with 3+ years of experience** delivering **cloud-native, full-stack**, and **DevOps** solutions across **multi-cloud environments (AWS, Azure)**. Proven track record in **leading ML infrastructure projects, automating CI/CD pipelines**, and developing **scalable applications** using **Python (Flask, FastAPI)**, **Terraform**, and **Kubernetes**. Adept at designing **serverless** and **cloud-agnostic architectures**, managing **production-grade deployments**, and collaborating cross-functionally to align **technology with business goals**. Experienced in working directly with clients, leading technical demos, and mentoring teams for successful delivery in agile environments.

## Professional Experience

### Innovatics | Solution Engineer (Ahmedabad) | 04/2024 - Present

- Led **ML-Studio**, a **cloud-agnostic, Low-Code ML Framework** project enabling rapid model development and deployment across **AWS, Azure**, and **GCP**.
- Migrated a **legacy Ruby system** (9 databases) to **Python**, improving maintainability and preparing for **production deployment (Control Case)**.
- Built and maintained **CI/CD pipelines** using **Terraform, Jenkins, Bitbucket Pipelines**, and **Azure DevOps**, reducing deployment time and human intervention.
- Conducted **R&D on client-requested technologies** such as **DNS configurations**, secure server setup, and domain mapping (TenderHealth).
- Developed backend services with **FastAPI** and frontend components using **React**, focusing on scalability and modularity.
- Implemented **serverless architecture** using **AWS Lambda**, integrated **API security** via key-based authentication, and ensured **RBI compliance** via automated audit pipelines.
- Managed **DevOps responsibilities** including **infrastructure automation, dynamic model deployment**, and **production rollout** across client projects.

### Razor Edge | Full Stack Developer (DevOps-Focused Role) (Mumbai) | 04/2022 - 03/2024

- **End-to-End Web Application Development:** Built and maintained web applications using **React.js, Node.js, MongoDB**, and **Next.js**.
- **Stock Market Analytics:** Developed a **financial data processing system** integrating **ChatGPT for AI-driven stock analysis**.
- **Automated Helpdesk System:** Created an intelligent chatbot using **NLP and ML** for automated ticket categorization and real-time notifications.
- **API Development & Integration:** Developed and deployed **100+ REST APIs** for financial decision-making platforms.

## Technical Skills

- **DevOps & Cloud:** AWS (ECS, EC2, S3, CloudFormation, Lambda, CloudWatch, IAM), Kubernetes, Terraform, Ansible, CI/CD (Jenkins, GitHub Actions, Bitbucket Pipelines)
- **Programming & Scripting:** Python (Flask, FastAPI, Django), Bash, JavaScript (Node.js, React.js)
- **Containerization & Orchestration:** Docker, Kubernetes, ECS Fargate
- **Monitoring & Security:** AWS CloudWatch, Prometheus, IAM Policies, Security Groups
- **Database & Storage:** PostgreSQL, MongoDB, MySQL, SQLite, Redis
- **Machine Learning & Data Engineering:** PySpark, ML Algorithms, Data Pipelines
- **Version Control & Collaboration:** Git, GitHub, Bitbucket

## Key Projects

**ML\_STUDIO: Advanced ML Solutions and Deployment Strategies (Innovatics)**

- Designed a **Low-Code ML Framework** enabling rapid model building and deployment.
- Integrated **Big & Small Data Virtualization** for flexible ML model development.
- Implemented **AutoML & Preprocessing** to streamline data preparation.
- Developed a **Dynamic Scaling (Auto Loader) system** for optimizing performance and cost.
- Created a **Cloud-Agnostic & Serverless architecture** supporting **AWS, Azure, and GCP**.
- Ensured **MLOps Integration** for seamless deployment and monitoring.
- Provided **End-Point Customization** for client-specific deployments.
- Implemented **Security Measures** via **API keys** for data protection.
- Maintained **RBI Compliance** through automated model auditing capabilities.

## Control Case: Legacy System Modernization (Innovatics)

- Migrated a complex backend system from **Ruby** (9 databases) to **Python**, using **AWS Lambda** for serverless execution.
- Ensured seamless production readiness, reducing technical debt and enhancing maintainability.

## TenderHealth: DevOps & Deployment Automation (Innovatics)

- Developed and optimized **CI/CD pipelines** for backend and frontend applications.
- Migrated legacy UI deployment workflows to **Bitbucket Pipelines**, improving speed and reliability.
- Performed **R&D on client-specific tech requirements** for **secure DNS, domain mapping**, and **static site deployment**.

## Iera: CI/CD and Full-stack Support (Innovatics)

- Contributed to both **backend** and **frontend development** for a health platform.
- Built a **Terraform + Jenkins-based CI/CD pipeline** for staging environments, improving deployment efficiency and reducing downtime.

## Computer Vision Platform: R&D & Feature Integration (Innovatics)

- Collaborated on **frontend UI integration** and **backend feature enhancements**.
- Led R&D efforts to integrate new capabilities based on evolving product and client needs.

## Stock Market Analysis Tool (Razor Edge)

- Developed an AI-driven stock market analytics platform by integrating **ChatGPT API** to convert natural language queries into structured financial expressions for automated calculations.
- Designed a **prompt engineering system** that transformed user inputs into stock-related expressions, enabling **automated trend analysis, backtesting, and portfolio screening**.
- Implemented **real-time stock data processing** for technical indicators (e.g., moving averages, volume trends), **fundamental analysis**, and attribution models.
- Built APIs in **Flask/FastAPI**, deployed on **AWS ECS**, and optimized response times using **caching and parallel processing**.
- Enhanced **user experience and decision-making** by dynamically generating insights in graphical and data-driven formats.

## Customer Support System (Razor Edge)

- Built an **AI-powered automated ticket categorization system** using **NLP and ML models** to classify and prioritize support requests.
- Integrated **ChatGPT API** to analyze user queries and route tickets efficiently based on sentiment and intent detection.
- Developed a **real-time notification system** to alert support teams instantly, improving response times and customer satisfaction.
- Designed and deployed the system using **Flask/FastAPI, MongoDB, and AWS ECS**, ensuring scalability and reliability.
- Enhanced operational efficiency by **automating ticket triaging**, reducing manual effort, and optimizing support workflows.

## Certifications

- **AWS Certified Solutions Architect – Associate (In Progress)**
- **Python for Everybody Specialization (Coursera)**
- **Data Analysis & Visualization with Python (Coursera)**
- **React.js (Udemy, Project-Based Learning)**
- **Flask Development (Udemy, Self-Learning)**

## Achievements

- Top 60 out of 2000+ in IBCO LABS IoT Hackathon for designing a **high-availability cloud architecture**.
- Developed an **AI-powered chatbot** for customer support, improving efficiency by **40%**.
- Integrated ChatGPT in **financial analytics**, enhancing data-driven investment strategies.

## Education

Institute of Engineering and Management, Kolkata

**B.Tech in Electronics and Communication Engineering** | CPI: 8.84 | 08/2018 - 06/2022