



# Rakesh Kumar Singh

## Technology Consultant

Technology consultant with major expertise in Python backend development. I have total 4.9 years of experience in which I have worked as Python Backend Developer. I have used Flask/FastAPI Frameworks and used Docker/Kubernetes for deployment

## Contact

### Phone

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### City

Bangalore

## Education

2014-2018

B.E(C.S.E)

Indian Institute of Technology (IIT)  
Kanpur

## Expertise

- Python
- Docker
- Kubernetes
- REST API (Flask/Fast API)
- Automation
- CI-CD
- Databases (PostgreSQL, MySQL)

## Language

English

Hindi

## Experience

2021 - Current  
EY

### Technology Consultant

- Client - Dell
- Project - DSA (Dell Sales Application) Product Automation
- Technologies Used - FAST API, Python, Docker, Kubernetes, GIT CI-CD

Developed multiple Rest APIs using FAST API framework for ML models for extraction of different Purchase Order entities which are currently running globally in client's Sales Domain and enabling Automation for creating Orders.

Created and deployed multiple ML Rest APIs using Docker and Kubernetes

Successfully parsed output data returned from ML model into a Rest-API standard response structure with respective HTTP status code and responses and Integrated all the Rest APIs with RabbitMQ messaging

Maintained Code-Quality and wrote Unit Test to ensure code coverage of Application and integrated security scans in GIT CI-CD Pipelines like Checkmarx, and scans like Twistlock scans on Docker image to ensure no vulnerability in Docker Image to be deployed. Monitored Kubernetes Pods memory usage through Prometheus to identify Infra Requirement to enhance Performance.

Written Integration test-cases to be triggered while deployment of APIs.

2018 - 2021

Infosys Ltd.

Senior System Engineer

- Client - AT&T
- Project - AT&T Contract Analysis workflow Product Automation
- Technologies Used - Flask, Python, PostgreSQL, Azure Cloud, Argo, Docker, Kubernetes

Performed Ingestion of pdf documents received from client and Extraction of valid content from them through Python scripts and pass the text content through M-L model to extract classified intents and entities.

Developed multiple python scripts to reduce team and self efforts like automate the entire workflow, export large data in multiple excels if data size exceeds capacity of single excel file, write document metric information to PostgreSQL database and copy them to mounted File System path, upload/download file directly from mounted File System path, and many more.

Developed Automation scripts to trigger workflow through Argo commands.

Developed and deployed the Rest APIs using Flask on Azure Kubernetes cluster

Written custom test-cases to test the product after deployment of source code.

Finetune M-L Model if there are so many False-Positives by retraining the model.