

# JAY SHAH

Surat, GJ | **Contact:** +91 9638581669 | [Mail](#) | [LinkedIn](#) | [GitHub](#)

## SUMMARY

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Experienced Software Developer excelling in Cloud Computing, Data Engineering, and Computer Vision. Enthusiastic about AI-driven innovation and real-world applications. Eager to contribute expertise in Computer Vision, Data Science, and Machine Learning, with a unique blend of skills in Customer Experience and Brand Strategy.

## SKILLS

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### 1. Programming:

Proficient in Python with hands-on experience in TensorFlow, Scikit-Learn, Numpy, Pandas, and Matplotlib.

### 2. Cloud Technologies:

Skilled in AWS and Terraform, ensuring efficient and scalable cloud infrastructure management.

### 3. Cloud Analytics:

Skilled with Kinesis Stream, Analytics, EMR, Glue, Athena, Quick Sight, IOT analytics, RedShift, Hadoop Fundamentals, and Serverless Analytics.

### 4. Containers:

Skilled in Docker and holds a fundamental understanding of Kubernetes for streamlined containerized deployments.

### 5. Machine Learning:

Skilled in Regression, Classification, Clustering, Dimensionality Reduction for robust machine learning implementations.

### 6. Azure Machine learning:

Skilled in deploying end-to-end machine learning solutions with Microsoft Fabric, MLFlow, and Azure Machine Learning. Proficient in DevOps principles, integrating Azure DevOps and GitHub. Familiarity in source control, automation using Azure ML pipelines, and continuous deployment. Skilled in data navigation, compute targets, and environments within Azure ML. Demonstrating proficiency in running training scripts, tracking with MLFlow, and deploying models to managed online endpoints.

### 7. Computer Vision:

Skilled in Object Detection, Image Classification, Image Segmentation, and Image Pre-Processing, contributing to cutting-edge computer vision applications.

### 8.DevOps:

Skilled in configuring secure Azure DevOps pipelines, adept at managing project and repository structures, permissions, and identities for enhanced security. Proficient in mitigating security threats, securing pipeline resources, and validating permissions. Experienced in extending pipelines with templates, tokenization, and minimizing plain text secrets along with securing access to Azure Repos, managing secrets in Azure Key Vault, and enforcing secure variable and parameter usage.

### 9. Generative AI:

Familiar with Image Generation, Diffusion Models, and Attention Mechanism, contributing to the frontier of generative artificial intelligence.

### 10. Transformer Models:

Familiar with Bert, PaLM, T5, and LLaVA, harnessing the power of transformer models for diverse applications.

### 11. Language Models (LLM):

Familiar with SingleStoreDB and Chainlit, showcasing versatility in language modeling.

**Certifications & Training:** Machine Learning Operation (MLOPS) Challenge – Microsoft,  
Machine Learning Challenge – Microsoft,  
ChatGPT Prompt Engineering – DeepLearning.AI,  
Training – AWS Cloud Practitioner

## WORK EXPERIENCE

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### Raj Vijtech Pvt Ltd

Surat, GJ

Data Analytics Project Intern

Jan 2022 – March 2022

- Collaborated with the business development team to support Marketing analysis through data analysis.
- Conducted Exploratory Data analysis and employed visualization techniques to uncover correlations.
- Developed a Recency, Frequency, and Monetary (RFM) analysis model in Python to analyse churn rate, customer lifetime value, and Customer Segmentation.

### Triveni Global Software Services LLP

Surat, GJ

Associate Software Developer

March 2022 – July 2023

- **Factory Big Data:**
  - Created AWS/Azure Infrastructure using Terraform.
  - Actively contributed to MLOps to align expertise with business KPIs/goals.
  - Designed Data Streaming Pipelines on Databricks using PySpark.
  - Ensured data quality and delivery.
  - Developed and deployed a layer-4 Load Balancer (TCP) RKE2 Cluster in Kubernetes using Terraform.
  - Utilized MLFlow for Experiment Tracking and Model Registry, along with BentoML.
- **HRIS Bot:**
  - Hands-on improving NLP skills and learning new NLP concepts con-currently.
  - Demonstrated Fine-tuning Albert QA on custom dataset.
  - Implemented Rasa-Framework for handling pre-defined actions and unmatched inputs.
  - Inference the Chatbot by creating a Web Application in Flask.

*Note: During my period of unemployment which I left due to personal reasons from July to October 2023, I dedicated my time to skill enhancement and actively pursued new job opportunities, showcasing resilience, adaptability, and a commitment to professional growth.*

## EDUCATION

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### UKA TARSADIA UNIVERSITY

Bardoli, Gujarat

B. Tech Mechanical Engineering

2016-2020

## PROJECTS

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### CosmoVision (Under Development)

Surat, GJ

Project

October 2023 – Present

- CosmoVision is a comprehensive SaaS AI application to address a spectrum of Computer Vision challenges.
- Introduced the Copilot feature, leveraging Blog posts and document pages for intelligent responses to Computer Vision queries.
- Currently engaged in strategic R&D to select the optimal Language Model (LLM) for enhanced capabilities, emphasizing a commitment to staying at the forefront of technological advancements.
- In the development pipeline, a Semi-automated Data Annotation tool is underway, with a focus on bridging the gap between Human-Machine Intelligence, showcasing a dedication to innovation in the field of computer vision.