TANISH BHOLA

MlOps & Cloud Engineer | Ex-Amazon

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EDUCATION

Bachelor of Technology - Computer Science   **2017 - 2021**

Bharati Vidyapeeth's College Of Engineering

CGPA 9.08

WORK EXPERIENCE

Concentrix

ML Cloud Engineer II   **01/25 - Present**

- Managing AWS cloud infrastructure for one of India's largest automobile manufacturers, with a focus on deploying and scaling machine learning models and pipelines. My responsibilities include overseeing end-to-end deployment of ML models, optimizing cloud architecture for improved performance and cost efficiency, and implementing best practices for security, compliance, and high availability. I work on automating MLOps workflows, including model training, versioning, and monitoring, to ensure seamless integration and operational efficiency. Additionally, I collaborate with data scientists and engineering teams to enhance model performance, drive experimentation, and accelerate the delivery of AI-driven solutions.

Amazon Web Services

AI/ML Cloud Engineer   **08/22 - 07/24**

AI/ML Cloud Associate   **07/21 - 07/22**

Cloud Associate Intern   **03/21 - 06/21**

I've had the opportunity to collaborate with numerous clients to optimize their ML architectures for production readiness (MlOps), focusing on cost-effective and efficient solutions. Some notable projects included:

- Spearheaded the establishment of a robust ML development environment on Amazon SageMaker to cater to the specific needs of Accenture, one of our most significant clients. This involved meticulously configuring SageMaker Studio Notebooks to provide a collaborative workspace for data scientists and engineers. Furthermore, I optimized resource allocation and security protocols to align with Accenture's stringent standards, creating a scalable and secure platform for their ML initiatives.

- Played a pivotal role in assisting the client in transitioning their on-premises trained machine learning model to the AWS cloud for deployment. I optimized the deployment process for scalability and performance, leveraging AWS's managed services and best practices. By successfully completing this migration, I helped the client unlock the benefits of cloud-based deployment, including enhanced flexibility, cost-efficiency, and scalability.

- To optimize resource utilization and reduce costs during periods of low demand, I guided the client in transitioning their machine learning model from real-time deployment to an asynchronous architecture. By leveraging asynchronous deployment, the client was able to significantly reduce operational costs while maintaining acceptable latency for most use cases.

The Coca-Cola Company

Deep Learning Intern   **05/19 - 07/19**

- Developed a project focused on image classification of Coca-Cola products using advanced deep learning and computer vision techniques. Developed a robust model capable of detecting instances where non-Coca-Cola products were stored in company-owned refrigerators, a direct violation of contractual agreements. Furthermore, the model accurately counted the quantity of various beverages within the refrigerator based on frontal image analysis. This innovative solution significantly streamlined operations by automating inventory checks and reducing the need for frequent on-site inspections by company personnel, resulting in substantial time and cost savings.

AiEye

Computer Vision Intern   **01/19 - 02/19**

- Developed a robust computer vision system for enhanced security utilizing Python-based face detection and recognition algorithms. This intelligent solution transformed traditional camera surveillance by recording concise video clips of human presence, significantly reducing footage analysis time. By automating the identification and capture of relevant video segments, this system empowered security personnel to navigate through camera feeds efficiently, improving response times and overall security efficacy.

CERTIFICATIONS

AWS Certified Machine Learning – Specialty

As a holder of this certification, I possess a deep-dive understanding of AWS machine learning (ML) services. I've honed my ability to construct, train, fine-tune, and deploy ML models seamlessly within the AWS Cloud environment. My expertise extends to extracting valuable insights from AWS ML services, leveraging both pre-trained models and custom models built on open-source frameworks.

See credential

AWS Certified Developer - Associate

As a holder of this certification, I possess a comprehensive grasp of application lifecycle management on the AWS platform. My proficiency extends to crafting applications using AWS service APIs, CLI, and SDKs, effectively utilizing containers, and implementing robust CI/CD pipelines. This expertise enables me to efficiently develop, deploy, and troubleshoot cloud-based applications adhering to AWS best practices.
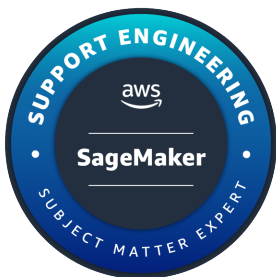
See credential

AWS Certified Solutions Architect - Associate

As a holder of this certification, I possess a comprehensive understanding of AWS services and technologies. With a proven ability to construct secure and robust solutions, I effectively apply architectural design principles to meet diverse customer needs. My expertise enables me to strategically engineer well-architected distributed systems that exhibit scalability, resilience, efficiency, and fault tolerance.

See credential

SageMaker SME

Subject matter expert in Amazon SageMaker with a proven track record of resolving complex model development, training, and deployment challenges. Possessing deep technical expertise in SageMaker features including notebooks, algorithms, hyperparameter tuning, and endpoint deployment.

See Credential

Data Engineering with Google Cloud

Demonstrated proficiency in architecting, implementing, and optimizing scalable big data solutions on Google Cloud Platform leveraging GCP services such as BigQuery, Dataflow, Cloud Storage, and Dataproc to extract actionable insights from complex datasets.

See Credential

HONORS & AWARDS

Secure and Private AI Scholarship - <u>META AI</u>

Selected as one of 300 global recipients of the prestigious Facebook Scholarship. Immersed in advanced data privacy techniques, I gained expertise in deriving meaningful insights from sensitive data while adhering to stringent privacy regulations. This cultivated a deep understanding of differential privacy, federated learning enabling the development of privacy-preserving data analytics solutions.

PERSONAL PROJECTS

ACCIST: Accident Assist

Developed a real-time car accident detection model integrated into an iOS application to significantly reduce response times in emergency situations. By leveraging advanced machine learning algorithms, the system accurately identifies accidents and promptly dispatches emergency services, potentially saving lives. This innovative solution addresses the critical gap between accident occurrence and the initiation of emergency response.
[See Project](#)

Smart EV

Developed a sophisticated machine learning model capable of accurately forecasting dynamic electricity prices at electric vehicle charging stations. This predictive model was seamlessly integrated into a progressive web application, offering users a convenient platform to access real-time pricing information. To enhance user experience, the application was further optimized for voice interaction through Google Assistant, allowing users to effortlessly obtain electricity price updates and optimize charging schedules.
[See Project](#)

SKILLS

Programming Languages
Python | C | C++

Technologies & Frameworks
PyTorch | PySyft | AWS Glue | OpenCV | Data pipelines | DialogFlow | ETL | SQL | MachineLearning | DeepLearning | SageMaker | MlOps | Bedrock | OpenAI | Arize | ML observability | Dataiku | MlFlow | KubeFlow | Databricks | Glue

Cloud Platforms
Amazon Web Services | Google Cloud Platform | Azure

Communication skills
Active listening | Constructive criticism | Interpersonal communication | Public speaking | Verbal/Non-verbal communication | Written communication