

# Toshal Warke

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## EDUCATION

### Arizona State University

*Master of Science in Computer Science*

Tempe, AZ

Aug 2023 – May 2025

### University of Petroleum and Energy Studies

*Bachelor of Technology in Computer Science*

Uttarakhand, India

Aug 2017 – Jun 2021

## TECHNICAL SKILLS

**Languages:** Python, SQL, Java, C++

**Frameworks:** TensorFlow, PyTorch, Scikit-learn, Keras, LangChain

**Cloud & MLOps:** AWS (SageMaker, Lambda, Bedrock), GCP (Vertex AI, TPU), Azure (ML Studio, OpenAI)

**Big Data:** Apache Spark, Databricks, BigQuery

**Tools:** Docker, Kubernetes, CI/CD, FastAPI, REST APIs

## EXPERIENCE

### Software Engineer | ThinkFuture Technologies, India

Mar 2021 – Jun 2023

- Architected AI-based testing frameworks for eCommerce search, increasing edge-case coverage by 20%.
- Implemented ML-driven test case selector using historical defects, reducing QA time by 30%.
- Led deployment of CI/CD pipelines on AWS and GCP, accelerating release cycles by 35%.
- Optimized multi-cloud inference systems, boosting model throughput by 25%.
- Mentored 5 junior engineers; introduced onboarding templates to cut ramp-up time.

### Data Analyst Intern | Pratham Software

May 2020 – Sep 2020

- Developed Python/Seaborn/Tableau dashboards that enhanced decision-making by 15%.
- Redesigned Azure Blob Storage structure, increasing access speed by 30% with 99.9% uptime.

## PROJECTS

### Cross-Camera Action & Identity Recognition

May 2024 – Aug 2024

*Built in collaboration with a startup to deploy a production-ready video recognition system.*

- Engineered YOLOv8-based tracking pipeline for cross-camera identity matching.
- Deployed real-time inference on GCP Vertex AI, improving system accuracy by 25% and uptime by 30%.

### Microblogging Enhancement via AI

Jan 2024 – Apr 2024

*Faculty-guided applied AI research project at Arizona State University.*

- Clustered disaster-related tweets using K-means to improve topic segmentation.
- Integrated LLM summarization via LangChain + Azure ML, increasing engagement by 50%.

### Customer Lifetime Value Prediction

Dec 2023 – Mar 2024

*Capstone project for Applied Machine Learning course.*

- Processed 100K+ records using PCA; achieved 89.7% prediction accuracy on regression model.
- Utilized BigQuery and Databricks for scalable data prep and feature engineering.

### Neurodegenerative Disease Detection

Aug 2023 – Dec 2023

*Research project under ASU faculty supervision.*

- Built CNN classifier using MRI and PET scans; deployed inference using AWS Lambda and ASU supercomputers.

## VOLUNTEERING & LEADERSHIP

### Technical Director | AI Society @ ASU

- Led MLOps workshops on AWS/GCP; mentored 20+ students on cloud deployments and LLM pipelines.