

**PROFESSIONAL EXPERIENCE**

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**Infosys Ltd — Senior Data Scientist** | Houston, TX | Jan 2025 – Present

- Boosted **utility theft detection accuracy by 25%**, improving lead conversion and revenue protection.
- Optimized Budget Billing analytics to uncover behavioral drivers, increasing **enrollment 15% and retention 10%**.
- Translated complex datasets into actionable policies with engineering & product teams, improving **customer engagement KPIs**.

**MemoryCare AI — Sr. AI/ML Engineer** | Newport Beach, CA | May 2024 – Jan 2025

- Built **LLM + RAG pipelines** (Python, TensorFlow) improving retrieval accuracy and powering HIPAA-compliant patient assistance.
- Created avatar-based speech & behavior tracking (PyTorch, OpenCV) with **90% detection accuracy**, enabling early Alzheimer's/TBI intervention.
- Designed Azure-based cognitive assessment platform, **cutting test time 35%** and scaling securely across clinics.

**USC Information Sciences Institute — ML Engineer** | Marina Del Rey, CA | Jul 2023 – Jul 2024

- Developed **Adaptive Mixture Quantization (AMQ)** for Cloud/Edge AI, improving accuracy **5%**, reducing model size **15%**, and boosting comms efficiency **30%**.

**TetraMem Inc — Machine Learning Intern** | Fremont, CA | May 2022 – May 2023

- Optimized Human Pose Estimation & Visual Wake Words models for edge inference chips, achieving **93% accuracy with reduced memory & latency**.
- Applied **Quantization Aware Training & post-training quantization**, maintaining accuracy while shrinking parameters significantly.

**Tata Consultancy Services — Software Engineer** | Mumbai, India | Oct 2020 – Aug 2021

- Developed and deployed **Java/HTML/CSS/JS modules** for university portals used by **10k+ students**, improving usability and reducing load time.
- Automated metadata mapping & reporting pipelines, cutting manual processing by **30%**.

**EDUCATION**

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**Arizona State University**

- Doctor of Philosophy(**PhD**) in Computer Science

Tempe, AZ  
January 2026-Present**University of Southern California****Master of Science**

- Master of Science in Computer Engineering (Machine Learning and Data Science specialization)

Los Angeles, CA  
August 2021-May 2023  
(GPA 3.8/4.0)**Dwarkadas J. Sanghvi College of Engineering, University of Mumbai****Bachelor of Engineering**

- Bachelor of Engineering in Electronics and Telecommunications Engineering

Mumbai, India  
July 2016-October 2020  
(CGPA 9.19/10)**TECHNICAL SKILLS**

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- **Programming:** Python, Java, C++, SQL, Git
- **ML/DL:** PyTorch, TensorFlow, Scikit-Learn, Keras, ONNX, OpenCV, QAT
- **Cloud/Data:** AWS (S3, Lambda, EC2), Oracle Cloud, Azure Cognitive Services, Spark, Hadoop, Docker
- **Databases:** PostgreSQL, Redis, Elasticsearch, NoSQL

**ACADEMIC PROJECTS**

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**Automatic Email Generation**

- Built an **email automation app** with FastAPI (backend, GPT-3) and React (frontend).
- Deployed via Docker + AWS (Lambda, EC2, API Gateway), enabling **scalable real-time email generation**.

*Technologies: Python, FastAPI, React, Docker, AWS (Lambda, EC2, API Gateway)***ASL Gestures Prediction using ST-GAN for Shadow Removal**

- Engineered **GAN-CNN fusion** to remove shadow noise and improve ASL gesture classification.
- Achieved **92.9% test accuracy** on gestures; integrated **MLFlow** for experiment tracking and MLOps.

*Technologies: Python, PyTorch, TensorFlow, GAN, CNN, MLFlow***Community Car Rental Platform**

- Developed a full-stack web app with Google Maps, VIN API & Cloudinary integrations; deployed via Google Cloud CLI.
- Leveraged **Hadoop (batch) + Spark (real-time analytics)** to provide recommendations based on car rental patterns.

*Technologies: React, Google Cloud, Hadoop, Spark, MongoDB, GraphQL, Cloudinary, VIN API***Banking Subscription Analysis**

- Predicted client subscription behavior using Logistic Regression, Decision Trees, Random Forests, and SVM.
- Benchmarked semi-supervised learning approaches (**S3VM, label propagation, Co-training**) to improve prediction accuracy.

*Technologies: Python, Scikit-Learn, Pandas, NumPy, SVM, Random Forest, Logistic Regression*