Harshil Sharma

St. Louis, MO | +1(314)3935686 | Email | LinkedIn | Portfolio | GitHub

SUMMARY

AI Cloud Engineer specializing in scalable machine learning solutions, cloud-based AI integration, and full-stack AI software development. Experienced in optimizing deployments, enhancing performance, and leveraging cloud infrastructure for cutting-edge AI applications

SKILLS

Cloud Platforms: Azure, AWS, GCP

Programming: Python, C++, Java, SQL

Frameworks: .Net, TensorFlow, PyTorch, Flask

Technologies: Application Integration, Data Engineering, Terraform, Kubernetes

Tools: Docker, Git, SQL Server, Linux

EXPERIENCE

PRiME Center, SLU *Oct 2024 – Present*

- Managed and optimized website content, enhancing research data accessibility for 1,000+ users.
- Conducted data collection, preprocessing, and statistical analysis, supporting policy-driven insights.

Taylor Geospatial Institute, SLU *Feb 2024 – Aug 2024*

- Developed real-time geospatial AI models on Azure, reducing satellite image processing time by 40%.
- Optimized cloud-native distributed computing, achieving a 30% increase in analytics speed.

Neem Consulting Ltd, India *Dec 2022 – Jun 2023*

- Engineered AI-driven contrast analysis tool, enhancing product visualization for 200+ brands.
- Integrated deep learning-based contrast analysis, improving accessibility by 85%.

Agniforge Industries *Jun 2021 – Dec 2021*

AI Software Developer Intern

- Developed voice recognition and object detection models using OpenCV, reducing processing time by 50%.
- Implemented AI-driven computer vision applications, enhancing automated classification accuracy by 35%.

PROJECTS

Efficient Deployment of Deep Learning Models on Edge Devices *Oct 2024 – Present*

- Optimized neural networks with TensorFlow and PyTorch for edge devices, reducing memory usage by 40%.
- Implemented pruning and quantization techniques to accelerate inference by 30%.

Contrast Calculator for Accessibility *May 2024 – Jul 2024*

- Built a contrast analysis tool using PyTorch, improving UI accessibility compliance by 85%.
- Applied **data engineering** techniques to enhance real-time image processing, reducing latency by 25%.

Microservices-Based Machine Learning Framework *Aug 2023 – Dec 2023*

- Engineered a microservices-based AI system for scalable ML workloads in C++ and Python.
- Leveraged Git for version control and CI/CD pipelines to streamline deployment cycles.
- Integrated cloud computing techniques, improving fault tolerance and load balancing.

Automated Attendance System with Facial Recognition *Jan 2023 – Mar 2023*

- Designed a facial recognition system in Python, achieving a 92% accuracy rate in real-time processing.
- Integrated Jupyter Notebook-based AI prototyping with TensorFlow to accelerate model training by 50%.

EDUCATION

Saint Louis University, St. Louis, MO *Aug 2023 – May 2025*

Master of Science in Computer Science – GPA: 3.71/4.00

- Relevant Coursework: Deep Learning, Edge Computing, Distributed Systems, Software Engineering.

SRM Institute of Science and Technology, Chennai, India *Aug 2019 – Jun 2023*

Bachelor of Technology in Computer Science Engineering

- Relevant Coursework: Data Structures, Deep Learning, Object-Oriented Programming.

ACHIEVEMENTS

Research Publication: Automated Attendance System using Adaboost Algorithm (IEEE)

Organized SRM Hackathon (2021-2022)

CERTIFICATIONS

Certified TensorFlow Developer

Advanced Python for Data Science Certification

Microsoft Azure Fundamentals Certified