

Harshil Sharma

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SKILLS

Programming Languages: Python, C++, C, JavaScript

Technologies: TensorFlow, PyTorch, Keras, OpenCV, Flask, FastAPI

Cloud Platforms: AWS, GCP, Azure

Tools: Git, Docker, Kubernetes, CI/CD Pipelines

Specialization: Machine Learning, AI/ML Frameworks, Computer Vision, Data Preprocessing, Backend Engineering

EXPERIENCE

PRiME Center, Saint Louis University

Oct 2024 – Present

Tech and Research Assistant

- Automated data analysis processes using Python, reducing processing time by 50% and improving research accuracy.
- Enhanced backend infrastructure by integrating APIs, optimizing large dataset queries, and improving performance by 30%.
- Led UI/UX redesign efforts for the website, increasing accessibility and user engagement by 25%.

Taylor Geospatial Institute, Saint Louis University

Feb 2024 – Aug 2024

Software Engineer Student Worker

- Built scalable pipelines for geospatial data processing, reducing latency by 25% using Docker and Kubernetes.
- Deployed Python-based geospatial applications on AWS, ensuring high availability and fault tolerance.
- Collaborated with cross-functional teams to optimize query performance and system reliability for large datasets.

Neem Consulting Ltd, Bangalore, India

Dec 2022 – Jun 2023

Technical Intern

- Designed and deployed ML workflows on cloud platforms, improving runtime efficiency and accuracy by 15%.
- Streamlined debugging processes, reducing error rates in distributed systems by 20% across production environments.
- Developed scalable backend APIs for seamless integration with machine learning pipelines in production.

Agniforge Industries, Delhi, India

Jun 2021 – Dec 2021

AI Software Developer

- Created real-time object detection models using OpenCV, achieving 92% detection accuracy in production systems.
- Designed APIs for cloud-based deployment, improving scalability and reducing system downtime by 30%.

PROJECTS

Automated Attendance System

Jan 2023 – Mar 2023

- Developed facial recognition software using OpenCV and Python, achieving real-time accuracy of 92%.
- Published findings in IEEE: [Link to Paper](#).

Geospatial Data Processing Platform

Feb 2023 – May 2023

- Built AWS-powered pipelines for geospatial data analysis, reducing processing latency by 40%.
- Implemented containerized solutions using Docker, enabling real-time data analysis with scalable deployments.

EDUCATION

Saint Louis University, St. Louis, MO

Aug 2023 – May 2025

Master of Science in Computer Science

- Relevant Coursework: Machine Learning, Distributed Systems, Cloud Computing.

SRM Institute of Science and Technology, Chennai, India

Aug 2019 – Jun 2023

Bachelor of Technology in Computer Science Engineering

- Relevant Coursework: Data Structures, System Design, Artificial Intelligence.

CERTIFICATIONS

AWS Certified Solutions Architect

Generative AI Certification by Hugging Face

Microsoft Azure Fundamentals Certified