

Sahil Vora

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in [sahil-vora](https://sahil-vora.github.io)

Seattle, United States

EDUCATION

Arizona State University

Arizona, United States

M.Sc. Computer Science

May 2024

- Focus: Master Thesis on Computer Vision assisted Medical Imaging ([📄 Thesis](#))
- Awarded Teaching and Research Assistant Scholarship by SCAI and Mayo Clinic, Arizona
- Relevant Subjects: Digital Video Processing, Social Media Mining, Statistical Learning
- Supervisor: Dr. Baoxin Li
- GPA: 4.0/4.0

Manipal Institute of Technology

Manipal, India

B.Tech Computer and Communication Engineering

July 2020

- Focus: Big Data
- Relevant Subjects: Pattern Recognition, Computer Vision, Algorithms, Data Structures
- GPA: 8.69/10.0

PUBLICATIONS

- R. Paul*, **S. Vora**, P.L.K. Ding, A. Patel, L. Hu, B. Li, Y. Zhou - 2025
Transferable Variational Feedback Network for Vendor and Sequence Generalization in Accelerated MRI
IEEE Big Data Mining and Analytics ([📄 Paper](#))
- **S. Vora***, R. Paul, P.L.K. Ding, A. Patel, L. Hu, R. Sharpe, Y. Zhou, B. Li - 2025
MEDL: Unsupervised Multi-Stage Ensemble Deep Learning Using Diffusion Models for Denoising MRI Scans
IEEE 22nd International Symposium on Biomedical Imaging (ISBI) ([📄 Paper](#))
- R. Paul*, **S. Vora**, N. Thakur, B. Li - 2024
A-FSL: Adaptive Few-Shot Learning via Task-Driven Context Aggregation and Attentive Feature Refinement
International Conference on Pattern Recognition ([📄 Paper](#))
- R. Paul*, **S. Vora**, K.P.L. Ding, A. Patel, L. Hu, B. Li, Y. Zhou - 2024
Transferable Variational Feedback Network for Vendor Generalization in Accelerated MRI
International Conference on AI in Healthcare ([📄 Paper](#))
- R. Paul*, **S. Vora**, B. Li - 2023
Instance Adaptive Prototypical Contrastive Embedding for Generalized Zero-Shot Learning
International Joint Conference on Artificial Intelligence (IJCAI) ([📄 Paper](#))
- **S. Vora*** - 2021
Phase Recovery for Holography using Deep Learning
International Research Journal of Engineering and Technology (IRJET) ([📄 Paper](#))

SKILLS

- **Programming:** Python (proficient), Java (advanced), C++ (intermediate), SQL (intermediate)
- **ML Frameworks:** PyTorch (proficient), SciKit-Learn (intermediate), TensorFlow (intermediate)
- **Languages:** English(proficient), Hindi(native), Gujarati(native)

PROFESSIONAL EXPERIENCE

Software Developer

Seattle

Amazon-AWS

December 2024 - Present

- Working for Key Management Service
- Worked on building an agent based operator to reduce operational pain
- Region and Zonal Infrastructure setup for AWS KMS Service
- Worked on migrating ticketing services internal for KMS.

Technology Developer

New York

Barclays

June - December 2024

- Building a deep generative model for website clickstream analytics using Amazon SageMaker and Bedrock to enhance real-time customer behavior predictions and support.
- Implementing dynamic config management for a Kafka-based platform, improving CI/CD pipelines with GitLab and Chef.

Software Developer 1
Sabre Corporation

Bangalore, India
October 2021 - July 2022

- Achieved successful **production migration** for company products and applications to **Google Cloud Platform**.
- Worked to enhance the Visual Content Management Platform - application to handle image and video data and create new service endpoints using REST and Spring.
- Handled the role of a **mentor and product lead** to help new interns gain and learn about software and cloud development.

Associate Software Developer 1
Publicis Sapient

Gurgaon, India
January - October 2021

- Built an end-to-end functionality using **Google AI** to show product recommendations on the entire website.
- Worked as a **Subject Matter Expert** to train and mentor people in the field of Salesforce Commerce Cloud (SFCC).
- Performed development responsibilities to include new features and provide end-to-end flow, including Home Page, Product page, Checkout, Payment flow, and post-order processing using Salesforce B2C Commerce.
- Used and added **Google Analytics** to payment pages to track the traffic flow for an e-commerce website.

ACADEMIC EXPERIENCE

Graduate Research Assistant
Prof. Baoxin Li

SCAI, ASU
January 2023 - May 2024

- Collaborated with Mayo Clinic on Thesis research in Medical Imaging, focusing on Inverse problem resolution and exploring newer techniques like Diffusion and Vision transformers for enhanced image quality.
- Developed MRI scan reconstruction models with limited data to resolve Vendor Transfer issues.
- Worked on developing novel algorithms for Zero-shot and Few-shot Learning by implementing multi-modal generative AI.

Teaching Assistant: Introduction to Software Engineering (CSE 360)
Prof. Lynn Robert Carter

SCAI, ASU
January 2023 - May 2024

- Developed and implemented an effort logging system, similar to JIRA, to provide hands-on experience to students in software development and project management.
- Facilitated course delivery in software development and AGILE methodologies.
- Mentored students in enhancing their skills through regular one-on-one sessions and clarifying technical concepts.

Volunteer Research Member
Prof. Paulo Shakarian

Lab V2, ASU
September - November 2022

- Contributing towards the project with the professor and helping generate data for different experiments and models.
- Work towards machine learning fairness and implementing logic gates to understand hypotheses testing using neural networks.

Teaching Assistant

Prof.: Younghwan Kim (MAT 211), Chandrani Banerjee & Lance Ward (MAT 117) SOMSS, ASU
August - December 2022

- Helping the instructor during the lecture and assisting students in solving doubts and queries regarding College Algebra and Business Mathematics.
- Helping to proctor and grade the quizzes and homework during the course.

Computer Vision Research Assistant
Advisor: Dr. Deepak Mishra

Indian Institute of Space Science and Technology, ISRO, Kerala, India
Dec 2018 - January 2019

- Selected for the IIST Winter Research Fellowship program and worked on **Phase Recovery for Holography using Deep Learning**.
- Used Deep Learning and Computer Vision to generate models and pipeline to create high-resolution hologram images with no physical equipment needed in the process.

HONORS AND AWARDS

- AWS Crypto GenAI Hackathon winner
- Best Paper award at International Joint Conference on Artificial Intelligence (IJCAI) 2023: GLOW
- Bagged the **first position** in university **Flipkart Grid - Teach the Machines** Machine Learning Challenge, 2019