Sahil Vora

Student
Tempe, Arizona

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Education

Arizona State University	**GPA: 4.00**
Master of Science - Computer Science with Specialization in Artificial Intelligence	May 2024
Manipal Institute of Technology, Manipal, India	**GPA: 8.69/10.0**
B.Tech in Computer and Communication Engineering with Specialization in Big Data	July 2020

Relevant Publications

- Instance Adaptive Prototypical Contrastive Embedding for Generalized Zero Shot Learning, **International Joint Conference on Artificial Intelligence (IJCAI) 2023: GLOW** - *Awarded as Best Paper Award* [Link]
- Phase Recovery for Holography using Deep Learning, **International Research Journal of Engineering and Technology (IRJET) 2021**. [Link]

Technical Skills

- **Languages and Frameworks**: Python, PyTorch, MATLAB, Numpy, Pandas, SQL, Gephi, VBA
- **Machine Learning**: Computer Vision, Natural Language Processing, Pattern Recognition, Web and Data Mining
- **Cloud Platforms and Tools**: Google Cloud Platform, AWS, Salesforce, Git, Jenkins, Terraform, Docker, Kafka, Selenium
- **Product Development**: Product Management, Strategy, Agile, Team Management

Work Experience

School of Computing & Augmented Intelligence, ASU — Tempe, AZ
Research Assistant — 01/2023 - Present

- In pursuit of a 30% or greater reduction in MRI scan duration using advanced denoising techniques in computer vision while exploring models like Diffusion and Vision Transformer for improved medical image quality.
- Creating a versatile denoising model for vendor transfer and diverse MRI body part denoising.

Barclays — Whippany, NJ
Developer Analyst Summer Intern — 06/2023 - 08/2023

- Streamlined communication among users and improved chatbot responsiveness by deploying an NLP-based Bot for daily use by 500+ users, enhancing JIRA error reporting, FAQs, and turnaround time.
- Enhanced component connectivity and team collaboration by designing a queue-based system library and introducing an MS Teams notification system using Apache Kafka.

Sabre — Bangalore, India
Software Developer — 10/2021 - 07/2022

- Led the migration of image and geographical data management platforms to Google Cloud, achieving a flawless 100% success rate.
- Improved APIs, designed efficient cloud architecture, and developed automated pipelines to optimize data management, ensuring high availability and seamless integration with legacy systems.

Publicis Sapient — Gurugram, India
Associate Software Developer — 01/2020 - 10/2021

- Played a pivotal role in GameStop's digital transformation efforts, ensuring zero downtime on the e-commerce website during peak sales periods.
- Achieved a remarkable 50% sales increase in sales by deploying new features like Xbox All Access, Trade-In Exchange for consoles, and optimizing website functionality using Google Analytics insights.

Indian Space Research Organisation (ISRO) - India — Kerala, India
Computer Vision Research Assistant — 12/2018 - 01/2019

- Conducted research to enhance hologram models using AutoEncoders and Feedback architecture, achieving a 40% reduction in training data requirements and training time, while maintaining high accuracy.
- Adapted the hologram technology prototype for versatile applications, including space exploration and land-rover missions, by removing the need for lasers and physical equipment.

Projects

Echo Chamber detection in Social Media *Python, Pytorch, Gephi, HuggingFace*

- Developed various algorithms that detects echo chambers in social media, utilizing network and content features. This algorithm measures similarity between users' timelines through tweet embedding with SBERT and NLP techniques, effectively combating misinformation and revealing political polarization. [Link]

COVID-19 Vaccine Stance Detection *Python, MATLAB*

- Conducted a Social Media exploratory project to analyze public attitudes toward COVID-19 vaccines, utilizing hashtag-based data from both Pro and Anti-vaccine campaigns to identify cluster formations and campaign epicenters. [Link]