

# Jinendra Malekar

[Email](#) | [Linkedin](#) | [Github](#) | [Google Scholar](#) | [Website](#) | [\(803\)-633-5670](#)

## EDUCATION

### University of South Carolina

Master of Science in Computer Science

Columbia, South Carolina, USA

August 2023 – Present

### International Institute of Information Technology, Naya Raipur

Bachelor of Technology in Computer Science and Engineering

India

## DATA SCIENCE EXPERIENCE

### Graduate Research Assistant (Research Advisor: [Dr. Amit Sheth](#))

Artificial Intelligence Institute Of South Carolina

August 2023 – Present

South Carolina, USA

- **WellDunn**: Provided two benchmark datasets for mental health and pointed insufficiencies of the language model for application in medical domains. ( **Under Review at AAAI 2024** )
- **CPR**: Created a web-based real-time application for monitoring and annotating high-risk suicidality-related posts on Reddit. ( **Under Review at AAAI Demo Track 2024** ) [\[demo\]](#)

### Research Specialist

Artificial Intelligence Institute Of South Carolina

August 2022 – July 2023

South Carolina, USA

- **Process Knowledge-infused Learning**: Leveraged language models to diagnose depression and provide clinical-friendly explanations for the mental health use case. ( [Accepted at AAAI 2023](#) )
- **Demo alleviate**: Demonstrated AI-enabled virtual health assistance with safety features that adhere to clinical practices using structured knowledge. ( [Accepted at AAAI Demo track 2023](#) )

## DEVELOPMENT PROJECTS

### Research Specialist

Artificial Intelligence Institute Of South Carolina

August 2022 – July 2023

South Carolina, USA

- **MDiabetes App**: Developed a comprehensive mobile app for **Prisma Health** to aid in monitoring type-2 diabetic patients. [ **MongoDB, ReactNative, Node.js, AWS, Flask** ] [\[demo\]](#)
- **BMW Dashboard**: Collaborated with **BMW Greenville/Fraunhofer** plant's material planners to create a customized dashboard for inventory management. [ **React.js, Firebase, Fast API, SQL** ] [\[demo\]](#)
- **Disaster Record**: Utilized real-time Twitter data to understand better people's need for shelter, food, and healthcare to enhance disaster response. [ **React.js, Node.js, Flask** ] [\[demo\]](#)

## PUBLICATIONS

### Published Work

- Kaushik Roy, Yuxin Zi, Manas Gaur, **Jinendra Malekar**, Qi Zhang, Vignesh Narayanan, Amit Sheth, “Process Knowledge-infused Learning for Clinician-friendly Explanations” June 2023. **AAAI Second Symposium on Human Partnership with Medical Artificial Intelligence**. [\[paper\]](#)
- K. Roy, V. Khandelwal, R. Goswami, N. Dolbir, **J. Malekar**, and A. Sheth, “Demo Alleviate: Demonstrating Artificial Intelligence Enabled Virtual Assistance for Telehealth: The Mental Health Case” Oct 2022, Accessed on 12/09/2022. [Online]. **Proceedings of the AAAI Conference on Artificial Intelligence**.[\[paper\]](#) [\[demo\]](#)

### Under Review

- Kaushik Roy, Yuxin Zi, Manas Gaur, **Jinendra Malekar**, Qi Zhang, Vignesh Narayanan, Amit Sheth, “Process Knowledge-infused Learning for Clinician-friendly Explanations”. **Proceedings of the AAAI Conference on Artificial Intelligence**.
- **Jinendra Malekar**, Kaushik Roy, Yuxin Zi, Manas Gaur, Vignesh Narayanan, Amit Sheth, “CPR - A Causal Process Knowledge-Infused Webtool for Suicidality Diagnosis”. **Proceedings of the AAAI Conference on Artificial Intelligence**.