# Jinendra Malekar

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## EDUCATION

**University of South Carolina** — Columbia, South Carolina, USA
*Master of Science in Computer Science* — *August 2023 – Present*

**International Institute of Information Technology, Naya Raipur** — India
*Bachelor of Technology in Computer Science and Engineering*

## DATA SCIENCE EXPERIENCE

**Graduate Research Assistant (Research Advisor: Dr. Amit Sheth)** — August 2023 – Present
*Artificial Intelligence Institute Of South Carolina* — *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** — August 2022 – July 2023
*Artificial Intelligence Institute Of South Carolina* — *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** — August 2022 – July 2023
*Artificial Intelligence Institute Of South Carolina* — *South Carolina, USA*

- **MDiabates 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**.