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-1 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**.