

Lived Experiences of Minoritized Communities Informing Participatory AI Design in Healthcare

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Abstract

Adopting a participatory approach in AI design—one that prioritizes diverse perspectives—has been widely recommended to address bias and its discriminatory effects. While previous research underscores the importance of valuing lived experiences, it lacks concrete guidance on how to integrate these perspectives into AI design effectively. This study therefore examines how lived experiences can be centered in participatory AI, identifying conditions necessary for meaningful implementation. Through twelve in-depth interviews with women navigating health issues, we captured their insights, employing the Biographical Narrative Interpretive Method (BNIM). From these narratives, we identified actionable requirements, offering guidance for embedding lived experiences into participatory AI design, thus advancing participatory AI beyond theoretical discourse.