



## MEHRNOUSH ZEIDABADI

Tlicho Government  
Canada

### Leveraging artificial intelligence to support immigrant women after a miscarriage: a design and implementation study

#### Abstract:

Miscarriage is the most common pregnancy complication affecting one in four pregnancies. The loss of a baby can seriously impact women's physical and mental health, leading to traumatic disorders such as anxiety, depression, anger, self-blame, and self-harm. Women who receive support after their miscarriage are more likely to manage their mental health well. Despite this, research shows many women do not have access to the support they need after a miscarriage. Immigrant women have more difficulty accessing support due to communication barriers, cultural barriers, differences in their religion compared to their host country, and living far from family and support networks. The objective of this research is to investigate the areas where immigrant women lack support and how AI-driven design can provide this support, helping to improve women's well-being after a miscarriage. Semi-structured interviews were conducted with experts in the fields of obstetrics/gynecology, psychology, grief counselling, and user experience design to better understand 1) The challenges women experience after having a miscarriage, 2) How immigrants' experience with miscarriage is different from the Canadian experience, and 3) How the design of an application could help women better manage their health physically and mentally after having a miscarriage.

#### Biography

**Mehnoush** is a graduate student from the University of Alberta's Master of Visual Communication Design program based in Edmonton. She specializes in user interface and user experience design, with a particular emphasis on the principles of participatory design. By using an empathetic and user-centric mindset, she consistently seeks to elevate the usability and accessibility of digital experiences, ensuring that each design not only serves its purpose effectively but also enriches the lives of its users. Throughout her career, she had the opportunity to work with a diverse range of communities and industries, including Indigenous groups, healthcare, and Fetmtech. These experiences have broadened her perspective and enabled her to create designs that are both inclusive and impactful.