This project aims to design and develop an accessible data representation system to engage blind learners in data science literacy movement. Over the past five years, we have witnessed rapidly changing education curricula demanding knowledge on data science and artificial intelligence. While the current trends seem to continue, insufficient attention has been paid to how current data science education can accommodate students with disabilities who are increasingly participating in general education settings. As the majority of data science tools and curricula are designed with visually-oriented modality, blind individuals have faced extra challenges. Given that there are over 63,657 legally blind children, youth, and adult students in the U.S. educational settings, it is imperative for information and learning scientists to address this issue which will otherwise continue excluding this group of people from the future education. Among the five procedures of common data science workflow (i.e., importing; wrangling; transforming; visualizing; and modeling), data visualization is considered as the most challenging point for blind people to interpret. Thus, this research project will focus on that aspect within the one-year timeframe.