



Omdena Local Chapters

**ENHANCING PUBLIC TRANSPORT
ACCESSIBILITY FOR INVISIBLE
DISABILITIES IN NAIROBI**

NOVEMBER 18, 2024



OMDENA DASHBOARD

CHALLENGE BACKGROUND



This project aims to leverage mobile and AI technologies to address a critical urban accessibility challenge in Nairobi, potentially improving the daily lives of thousands of people with invisible disabilities while also raising public awareness and promoting a more inclusive society.

Nairobi, Kenya's capital, has a complex public transportation system including matatus (minibuses), buses, and the newly introduced Bus Rapid Transit (BRT) system. The city's population of over 4 million relies heavily on these services, but they can be challenging to navigate, especially for people with invisible disabilities.

PROBLEM STATEMENT

People with invisible disabilities (e.g., autism, chronic pain, hearing impairments) often struggle to communicate their needs in Nairobi's fast-paced and crowded public transportation system. This leads to misunderstandings, lack of accommodation, and potentially dangerous situations.





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*The environment must be
maintained in order to protect the
survival of life in the future.*

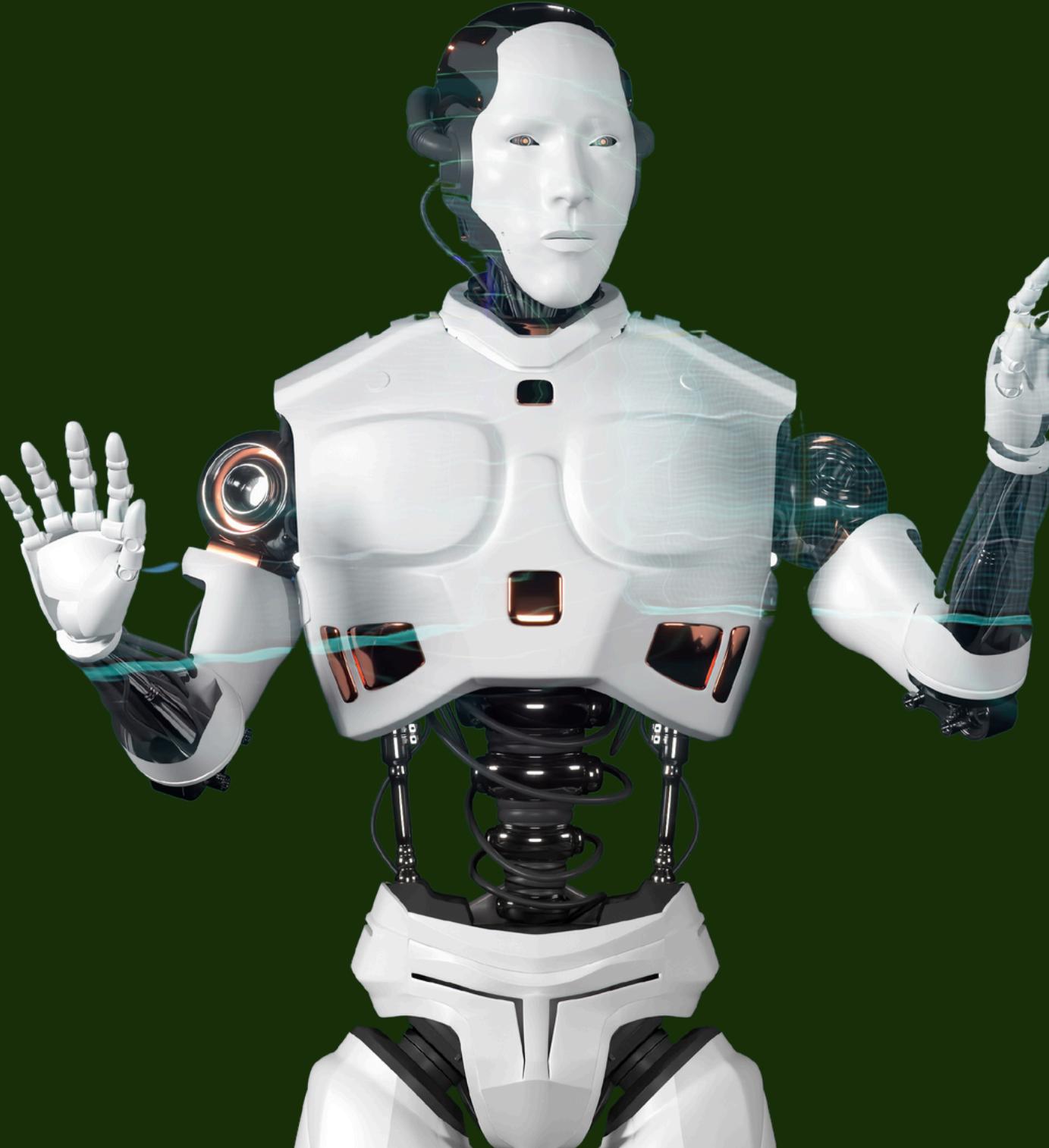
PROJECT TIMELINE

- Data collection
- Data preprocessing
- Data analysis
- Model building
- Model integration & Deployment
- Research paper/blog



SKILLS YOU'LL DEVELOP BY ACTIVE CONTRIBUTION

- 1. Inclusive Design**
- 2. Natural Language Processing for Low-Resource Languages**
- 3. Context-Aware Mobile Applications**
- 4. Cross-Cultural Communication**
- 5. Ethical AI and Inclusive Technology**
- 6. Community-Centered Design**
- 7. Impact Evaluation for Accessibility Projects**
- 8. Public Transportation Systems**
- 9. Continuous Learning Systems**
- 10. Project Management**
- 11. Data Journalism**



NEXT STEPS

- Join Slack Channel
- Vote for Proposed brainstorming session
- Do Preliminary research and post in Project Tracker
- Let me know if you want to be Task Co-Leads
- Lets continue discussion on slack





Please reach out to us at:

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