

PAARTH AGGARWAL

GCSE student at QE Barnet

- Passionate about the recent exponential growth in AI and GenAI technological advancements in the recent years
- Developed AI-powered gaming apps and published them onto Google Play store
- Created a voice assistant using Raspberry Pi
- Top 10 winner of Microsoft Imagine Cup Junior, top team in UK
- Achieved the Gold Award in the Middle School Category at the WAICY global competition

About me



<https://www.linkedin.com/in/paarth-aggarwal/>



<https://www.youtube.com/@paarthaggarwal>



<https://www.navigateai.uk/>

E-Waste is an insidious problem...the numbers are alarming

6 million Tonnes
of e-waste generated in UK yearly

Source: <https://www.businesswaste.co.uk/>

Just 38%
of the e-waste gets recycled in UK

Source: <https://www.wastemanaged.co.uk/>

67% local residents
lack essential
information
on responsible
waste disposal
practices

COMMUNITY SURVEY

1/4

More people
to recycle if
waste
disposal is
rewarding for
them

SCIENTIFIC OBSERVATION

People recycle more
when they are
educated with waste
impacts

CASE STUDY

We are encouraged to simplify electronic waste management, powered by the latest technology...trust me, it can do MAGIC !!!

GenAI powered chatbot

Multimodal bot to answer waste related queries interactively, 24x7

Rewards

Get incentivised for responsibly treating the electronic wastes in real-time

Education

Notification with the challenges and impact on planet

Carbon footprint calculator

Carbon contribution indicator showing the contribution made

Cost optimization through automation

- AI to automatically segregate waste into various categories
- Cost optimization and efficiency improvement in waste collection using AI
- Waste trends and drivers required for policy making by the Government

Our solution can revolutionise electronic waste management.. Don't believe me? Hah, you're about to be overwhelmed



Our proposed solution demo

Currently, our solution tracks 'all' waste types (including e-waste), can easily be modified specifically for 'e-waste'



<https://www.youtube.com/watch?v=uJf2KyMAApU>