



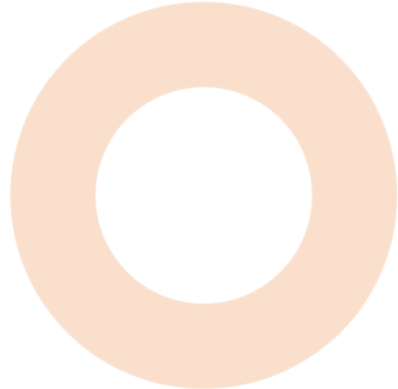
AI and Automation Journey in Leeds

Leonardo Tantari – CDIO



Integrated Digital Service

Leeds Office of WY ICB and Leeds City Council

- Driving towards Centre of Excellence for AI
 - Wide consideration across our experts and teams on:
 - Ethics
 - Governance
 - IG
 - Clinical
 - Leading to an AI and automation strategy
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An Early Adopter of Microsoft Co-Pilot

Our Learnings



<input type="checkbox"/> Complex visualisations from Excel spreadsheets can be generated that provide easy to understand charts and dashboards	Additional value and insight across the organisation, not just for those who have access to data analysts.
<input type="checkbox"/> Summarises email chains	Save staff time
<input type="checkbox"/> Creates PowerPoint slides from reports	Incorporating text and images

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Our Learnings



Quickly create job descriptions

Copilot can quickly scan existing council JDs and those with similar job titles from the internet to create a new JD in less than a minute.

Supports report writing

Can create reports by packaging information from existing documents plus augmenting with additional web-based content.

Improved work-life balance

Multiple emails are quickly summarised meaning staff have less to worry about when returning from leave or being away from the office.

Meeting summary

Staff who arrive at a team meeting late, or who are unable to attend at all can get a summary of who said what.

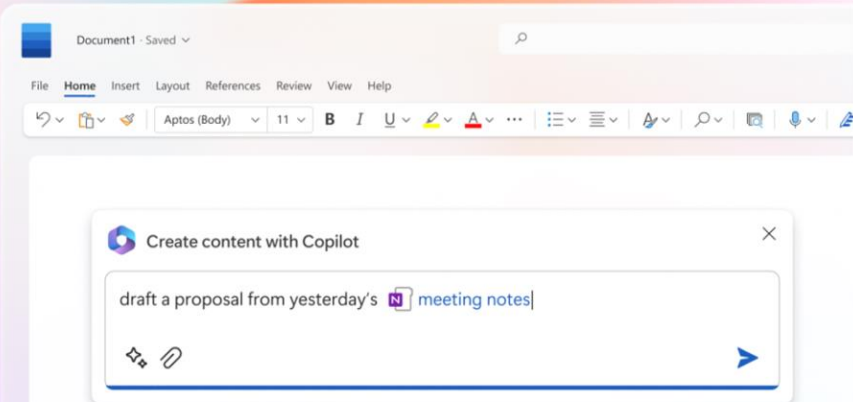


Image from Microsoft AI Copilot

Discharge to Access App

Mobile Ready for Front Line Workers

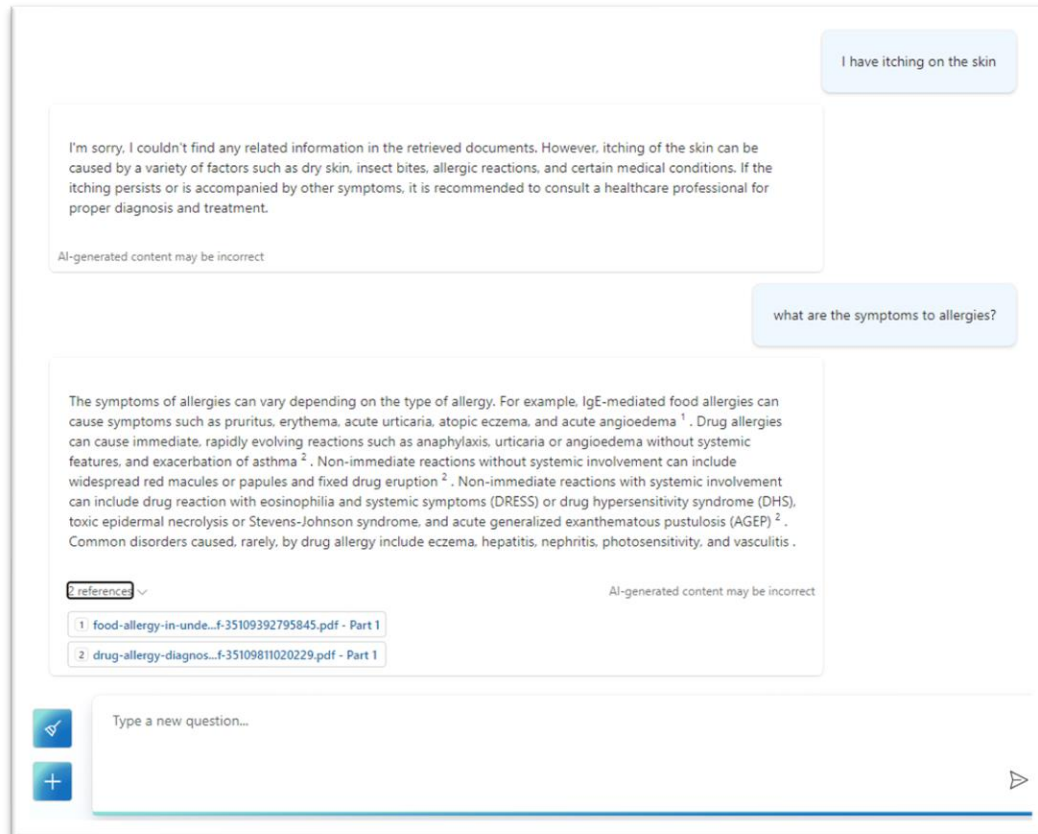


Using Power Apps to:

- Streamline the discharge process
- Improved patient assessment and reporting
- More detailed care planning
- Improved communication
- Resource coordination
- Monitoring and follow-up
- Looking to include forecasting via AI/ML

AI language models in healthcare

The next chapter in clinical diagnosis?



The screenshot shows a chat interface with two messages. The first message is a user query: "I have itching on the skin". The AI response states: "I'm sorry, I couldn't find any related information in the retrieved documents. However, itching of the skin can be caused by a variety of factors such as dry skin, insect bites, allergic reactions, and certain medical conditions. If the itching persists or is accompanied by other symptoms, it is recommended to consult a healthcare professional for proper diagnosis and treatment." Below the response is a warning: "AI-generated content may be incorrect". The second message is a user query: "what are the symptoms to allergies?". The AI response provides a detailed list of symptoms: "The symptoms of allergies can vary depending on the type of allergy. For example, IgE-mediated food allergies can cause symptoms such as pruritus, erythema, acute urticaria, atopic eczema, and acute angioedema¹. Drug allergies can cause immediate, rapidly evolving reactions such as anaphylaxis, urticaria or angioedema without systemic features, and exacerbation of asthma². Non-immediate reactions without systemic involvement can include widespread red macules or papules and fixed drug eruption². Non-immediate reactions with systemic involvement can include drug reaction with eosinophilia and systemic symptoms (DRESS) or drug hypersensitivity syndrome (DHS), toxic epidermal necrolysis or Stevens-Johnson syndrome, and acute generalized exanthematous pustulosis (AGEP)². Common disorders caused, rarely, by drug allergy include eczema, hepatitis, nephritis, photosensitivity, and vasculitis." Below the response is a "reference" section with two links: "1 food-allergy-in-unde...f-35109392795845.pdf - Part 1" and "2 drug-allergy-diagnos...f-35109811020229.pdf - Part 1". At the bottom, there is a text input field with the placeholder "Type a new question..." and a send button.

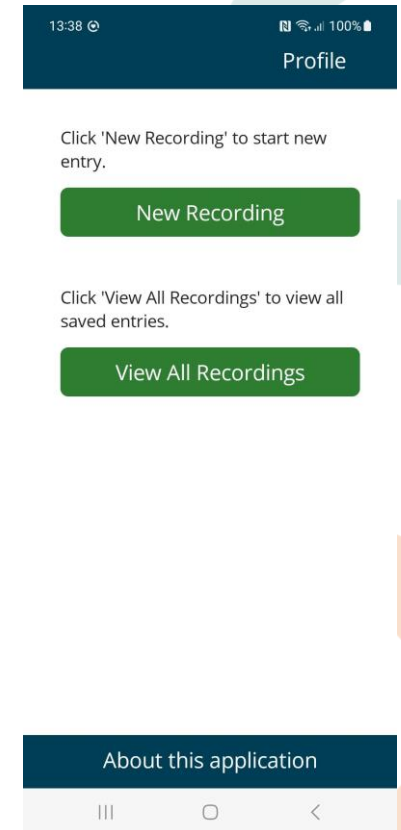
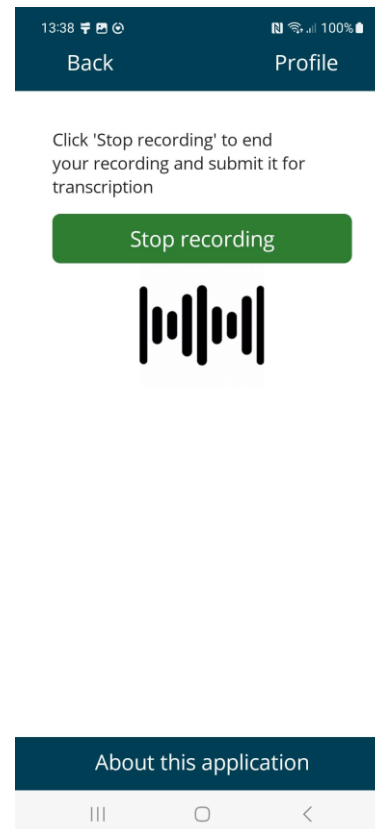
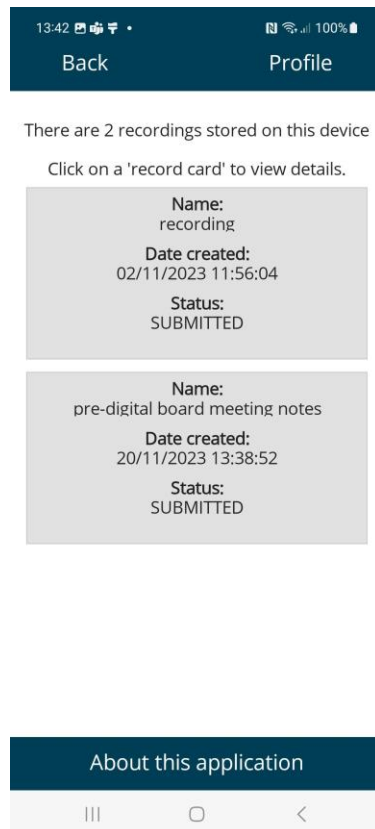
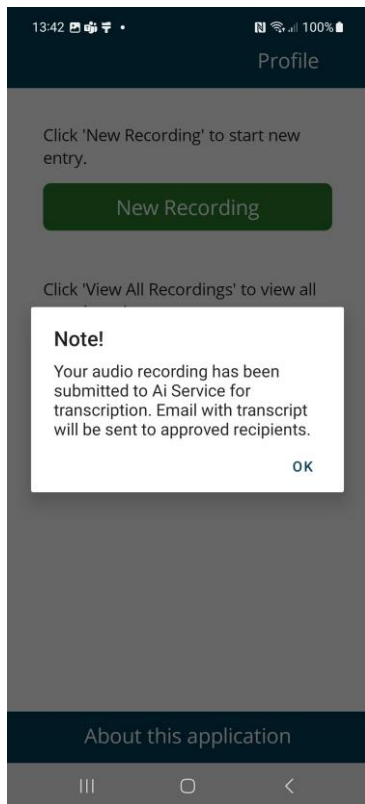
- Using Microsoft Azure (Cognitive Services and OpenAI)
- Automate certified and clinically recognised information based on questions, cues, symptoms
- Train the tool by feeding from the National Institute for Health & Care Excellence (NICE)

Imagine a future where

AI can respond to your requests and provide diagnosis and prognosis based on symptoms


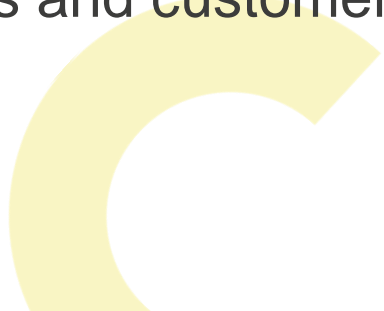
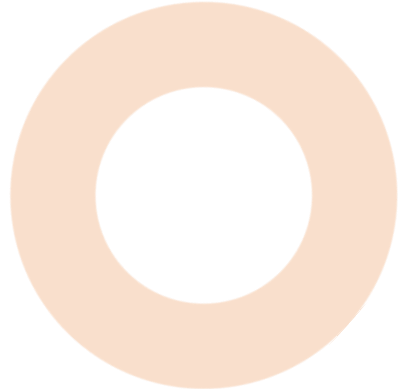
Audio Translations

Innovative In-House Development for Adult Social Care



Audio Translations

Innovative In-House Development for Adult Social Care

- Using AWS
 - Agile development of audio translations for social care
 - Instant language translations
 - AI-generated clinical notes that are easy to validate
 - Summarise a conversation which can be incorporated into a person's care plan
 - Saving social care time in admin time
 - Providing an improved experience to our patients and customers
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Thank you.