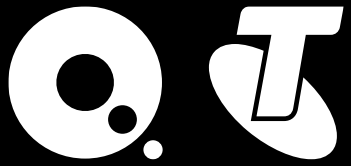


November 2024



EdChat: Appendix



Government of South Australia
Department for Education

Appendix A: Content

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Notes:

1. School names have been de-identified throughout this report, with de-identification occurring at each chart / analysis level. For example, "School A" in Figure 2.1.5 is not necessarily the same as "School A" in appendix A2.

A1. For the user uptake analysis, we focused exclusively on educator and student use over the first year of the pilot



This data cut has been built based on several key decisions:

Decision	Rationale	Impact
1. Focus on educators and students at pilot schools	Removing user data for corporate staff and other users not associated with the pilot aligns analysis to scope of the pilot (students and educators at 16 pilot schools).	Smaller population under analysis: Excluded 1,936 EdChat user profiles from overall cohort.
2. Limit period to 1 July 2023 – 30 June 2024	Approximate dates of the pilot program (as there was no formal start date), and provides 12 months of data for analysis, enabling standardised periods (weeks, months).	Removes 12 days of data from scope of analysis (extract provided runs up to June 12 2024).
3. Count of total users is based on an assumed date that the school and the year level was given access ²	We do not have a source of truth for total number of people with access to EdChat on a given day due to limitations in the data.	Potentially skews rates to be more conservative as we are estimating the denominator used to calculate rates.



Notes:
 1. These assumptions have been validated by the Emerging Technology & EdPass team in the South Australia Department for Education.
 Source: EdChat data, 1 Jul 2023 – 30 Jun 2024; Analysis by Quantum Telstra, 13 Nov 2024

A2. EdChat incremental rollout assumptions for different user role types and year levels for each school

Phase 1 pilot schools – dates of access for each user group

User role types	Year 12 graduating year	Dates of access							
		School A	School B	School C	School D	School E	School F	School G	School H
Educator	-	2023-07-01	2023-07-01	2023-07-01	2024-01-01	2023-07-01	2023-07-01	2023-07-01	2023-07-01
Student	SO ²	-	2024-06-01	-	-	-	-	-	-
	2024	2023-07-01	2023-07-01	2023-07-01	2023-07-01	2023-07-01	2024-02-01	2023-07-01	2023-07-01
	2025	2024-01-01	2024-06-01	-	2024-01-01	2023-07-01	2024-02-01	2023-07-01	2023-07-01
	2026	2023-07-01	-	-	2024-01-01	2024-01-01	2024-02-01	-	2023-07-01
	2027	2023-07-01	-	-	2023-07-01	-	2023-07-01	-	2023-07-01
	2028	2023-07-01	-	-	2023-07-01	-	2023-07-01	-	2023-07-01
	2029	2024-04-01	-	-	2024-01-01	-	2024-01-01	-	2024-03-01



Notes:
 1. The assumptions regarding incremental rollout dates are based on the first message date for each year level and user role type observed in the database. These assumptions have been verified by the Emerging Technology & EdPass team in the South Australia Department for Education.
 2. SO represents 'Secondary Other'. Students under this category do not have a standard year level.
 Source: EdChat data, 1 Jul 2023 – 30 Jun 2024; Analysis by Quantum Telstra, 13 Nov 2024

A2. EdChat incremental rollout assumptions for different user role types and year levels for each school (cont.)

Phase 2 pilot schools - Dates of access for each user group

User role types	Year 12 graduating year	Dates of access							
		School I	School J	School K	School L	School M	School N	School O	School P
Educator	-	2023-11-01	2023-11-01	2023-11-01	2023-11-01	2023-11-01	2023-12-01	2023-11-01	2023-11-01
Student	SO ²	-	-	2024-02-01	2024-02-01	-	2024-05-01	-	-
	2024	-	2023-09-01	2024-02-01	2024-02-01	-	-	-	2024-02-01
	2025	2024-02-01	2023-09-01	2023-11-01	2024-02-01	2023-11-01	-	-	2024-02-01
	2026	2024-02-01	2023-09-01	2023-11-01	2024-02-01	2023-11-01	-	2024-03-01	2024-02-01
	2027	-	2023-09-01	2023-11-01	2024-02-01	-	-	2024-05-01	-
	2028	-	2023-09-01	2024-01-01	2024-02-01	-	-	2023-11-01	-
	2029	-	2024-01-01	2024-05-01	2024-02-01	-	-	2024-02-01	-

Notes:

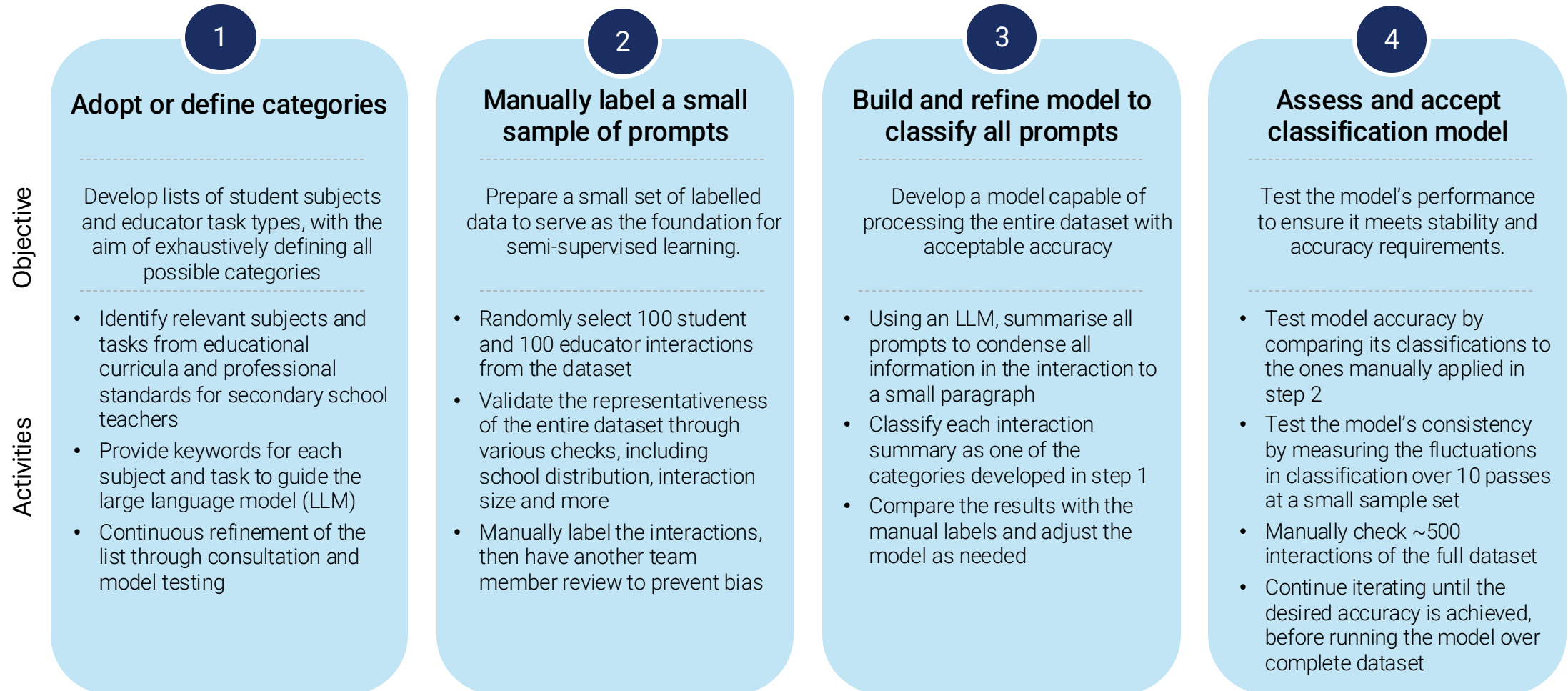
1. The assumptions regarding incremental rollout dates are based on the first message date for each year level and user role type observed in the database. These assumptions have been verified by the Emerging Technology & EdPass team in the South Australia Department for Education.

2. SO represents 'Secondary Other'. Students under this category do not have a standard year level.

Source: EdChat data, 1 Jul 2023 – 30 Jun 2024; Analysis by Quantum Telstra, 13 Nov 2024



A3. For the analysis of subjects and task types in section 2.2 and 2.3, we used a semi-supervised method to classify prompts



A4. List of student subjects, selected keywords to define the subject in which we can identify prompts related to this subject

The aim of the defining a taxonomy of subject classifications was to classify 'subjects' that can be observed in student interactions. Subjects for classification were selected from Australian Curriculum used in F-10 education and SACE subjects.

Given the ambiguity of natural language, where users may not expressly identify the subject of inquiry, we have accepted a lower accuracy level. Statistical summaries that are provided are indicative only.

Subject classification	Selected keywords	Count of Student EdChat interactions ¹⁻²	Percentage of Student EdChat interactions ¹⁻²
Civics and Citizenship	Civic life, politics, government, laws, legal systems	3,547	3.92%
Dance	Ballet, contemporary, cultural dance	417	0.46%
Design and Technologies	Architecture, interior design, fashion, graphic design, prototyping, textile, woodwork, metalwork	2,041	2.25%
Digital Technologies	Coding, web design, programming, app, cybersecurity, cloud, AI, ML	2,260	2.50%
Drama	Drama, theatre, acting, stage, comedy, storytelling, improvisation, stagecraft	1,231	1.36%
Economics and Business	Economic systems, finance, business, accounting, management, marketing	1,931	2.13%
English	English Language and Literature	20,510	22.66%
Food and Hospitality	Cooking, hospitality, restaurant, catering	1,907	2.11%



Notes:

1. Only text-based interactions have been analysed at this time. Prompts requesting image generation have not been classified.
- Source: EdChat data, 1 Jul 2023 – 30 Jun 2024; Analysis by Quantum Telstra, 13 Nov 2024

A4. List of student subjects, selected keywords to define the subject in which we can identify prompts related to this subject (cont.)

Subject classification	Selected keywords	Count of Student EdChat interactions ¹	Percentage of Student EdChat interactions ¹
Geography	Environment, sustainability, climate, weather, country	4,035	4.46%
Health and Physical Education	Mental health, nutrition, drug and alcohol, sexual health, personal safety, fitness, sports, human body, athletics	5,948	6.57%
History	Ancient civilisation, empire, war, revolution	6,795	7.51%
Humanities and Social Sciences	Tourism, society and culture, religion	1,096	1.21%
Languages	Chinese, Arabic, Auslan, Aboriginal languages, French, German, Spanish, Italian, Russian, Japanese etc.,	1,385	1.53%
Mathematics	Algebra, measurement, geometry, statistics, probability etc.	8,759	9.68%
Media Arts	Film, camera, sound design	1,841	2.03%
Music	Genre, orchestra, concert, music performance, composition, musical instrument, band	1,285	1.42%
Science	Biology, chemistry, physics, scientific report writing, science experiments etc.	18,363	20.29%



Notes:

1. Only text-based interactions have been analysed at this time. Prompts requesting image generation have not been classified.

Source: EdChat data, 1 Jul 2023 – 30 Jun 2024; Analysis by Quantum Telstra, 13 Nov 2024

A4. List of student subjects, selected keywords to define the subject in which we can identify prompts related to this subject (cont.)

Subject classification	Selected keywords	Count of Student EdChat interactions ¹	Percentage of Student EdChat interactions ¹
Visual Arts	Painting, sculpture, drawing, photography, print, mixed media	1,371	1.51%
Not curriculum related	Any prompt that has not been classified as one of the above	5,788	6.39%



Notes:

1. Only text-based interactions have been analysed at this time. Prompts requesting image generation have not been classified.

Source: EdChat data, 1 Jul 2023 – 30 Jun 2024; Analysis by Quantum Telstra, 13 Nov 2024

A5. List of teacher tasks, the definition of the task scope in which we can identify prompts related to this task

The aim of defining a taxonomy of task types was to classify tasks that can be observed in Educator prompts. Task classifications were created using the Jobs and Skills Australia task description for Secondary School Teachers¹ and iterated on through consultation and model testing.

Given the ambiguity of natural language, where users may not expressly identify the subject of inquiry, we have accepted a lower accuracy level. Statistical summaries that are provided are indicative only.

Classification	Definition	Count of Educator EdChat interactions ¹	Percentage of Educator EdChat interactions ¹
Career and professional development	Improving own skills and collaborating with administration on enhancing processes.	436	3.93%
Communication	Communicating with students' parents and guardians regarding student progress, or collaborating with other educator colleagues, or communicating with the students directly.	1,273	11.46%
Curriculum management	Planning, updating, and organising curriculum materials and lesson plans to align with educational standards, and tailoring materials for a classroom setting or year level.	6,326	56.95%
Event coordination	Organising school trips and special events outside of classroom, managing logistics such as transportation and permissions.	363	3.27%
Exploration	Searching for and extracting specific educational materials, data, or resources to understand a topic deeper.	800	7.20%
Other admin tasks	Other administrative tasks, such as managing student records, handling student enrolments, and preparing for meetings.	118	9.13%



Notes:

1. Only text-based interactions have been analysed at this time. Prompts requesting image generation have not been classified.

Source: EdChat data, 1 Jul 2023 – 30 Jun 2024; Analysis by Quantum Telstra, 13 Nov 2024

A5. List of teacher tasks, the definition of the task scope in which we can identify prompts related to this task (cont.)

Classification	Definition	Count of Educator EdChat interactions ¹	Percentage of Educator EdChat interactions ¹
Personalisation	Personalising learning resources and implementing programs for a specific student with additional learning requirements or special needs.	295	2.66%
Insights for student learning	Providing insights on students' homework or assignments to assess understanding and guide future instruction or providing deeper understanding of a student's performance and progress over the academic year.	1014	1.06%



Notes:

1. Only text-based interactions have been analysed at this time. Prompts requesting image generation have not been classified.
Source: EdChat data, 1 Jul 2023 – 30 Jun 2024; Analysis by Quantum Telstra, 13 Nov 2024

A6. List of figures shown in the report

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A7. Glossary

Figure number	Figure title
Active user	Student and educator users who have queried EdChat at least once during the analysis period.
Analysis period	Between 1 July 2023 – 30 June 2024.
Curriculum aligned	A student interaction that has been classified into a subject from the available list of subjects (see appendix A4 for further detail).
Education related	An educator interaction that has been classified into a task from the available list of task types (see appendix A5 for further detail).
Inactive users	Student and educator users with no recorded activity during the analysis period.
In-school	During school days between 9am and 3pm.
Interaction	A series of messages submitted by a single user where: <ol style="list-style-type: none"> 1. The messages are contained within the same session 2. The interval between messages is less than one hour.
Out-of-school	Represents hours before 9am or after 3pm on school days, school holidays, public holidays and weekends
Prompt rate	The average number of prompts per user over a given timeframe, calculated by dividing the total number of prompts sent by all users by the total number of users who have sent prompts within that timeframe.
School days	Weekdays that are not federal or state public holidays, that fall between: <ul style="list-style-type: none"> • 1 Jul 2023 – 7 Jul 2023 (Term 2, 2023 from start of analysis period) • 24 Jul 2023 – 29 Sep 2023 (Term 3, 2023) • 16 Oct 2023 – 15 Dec 2023 (Term 4, 2023) • 29 Jan 2024 – 12 Apr 2024 (Term 1, 2024) • 29 Apr 2024 – 30 Jun 2024 (Term 2, 2024 to end of analysis period)

