#### **Expert Panel: Generative Language Models**

#### **Results:**

Following the expert panel exercise, we proceeded to cluster the data presented on sticky notes. We collected a total of 127 responses under use cases, 91 responses under stakeholders, 134 responses under datasets, 34 responses under good impacts, and 15 responses under other impacts. To identify common phrases, patterns, trends, and recurring themes, we thoroughly read through all the responses. We grouped similar responses together and assigned them a relevant category, repeating this process until all responses were categorized. The resulting responses and categories were transcribed, with the numbers in parentheses indicating the number of responses in that category or the specific response.

While some responses may sound similar, we refrained from combining them as it could dilute the distinct tone of each response. However, when multiple respondents provided the exact same response (e.g., students, education), we grouped them together and indicated the frequency of that particular response in parentheses. This allowed us to accurately represent the range of perspectives and ideas shared by our panel of experts.

#### 1. Use Cases (127)

| Categ        | ory       | Responses  |
|--------------|-----------|--|
| Writing/sun  | nmarizing | Creative writing   |
| (8)          |           | Generating social media content / news                             |
|              |           | Meeting notes & agenda making                                      |
|              |           | Text summarizing (2)   |
|              |           | Reading/writing assistant (2)                                      |
|              |           | Summarization (downstream tasks in NLP)                            |
| News gen     | eration   | Journalist news writing  |
| (3)          |           | News/media reporting   |
|              |           | News generation  |
| Program      | nming     | Creative Co-pilot  |
| (10          | )         | Coding   |
|              |           | Code & Code comment generation (2)                                 |
|              |           | Code generation in new domains (hardware? Other misc. Boilerplate? |
|              |           | Text-to-app  |
|              |           | Generating latex or code   |
|              |           | Data generation (reverse prompting?)                               |
|              |           | Inputting problem statement & getting out an algorithm             |
|              |           | Inputting app spec and outputting app code                         |
| Professional | Legal     | Legal help   |
| Services     | (9)       | Writing waivers or other legal documents                           |
| (17)         |           | Legal document drafting  |
|              |           | Automated defense attorneys  |
|              |           | Legal system   |
|              |           | Making legal decisions based of court script                       |
|              |           | Writing legal documents  |
|              |           | Generating privacy policy, Terms of Services                       |
|              |           | Business document drafting   |

| Medical              | Given symptoms, output diagnosis (automated Web MD)                   |
|----------------------|---|
| (2)                  | Medical doctor understanding & analysis                               |
| Financial/oth        |   |
| (6)                  | Advice: what should I do to get promoted?                             |
|                      | Tell me recipe given ingredients                                      |
|                      | Professional assistant tools for doctors, CPAs, lawyers               |
|                      | Menu, food descriptions, nutrition labels                             |
|                      | Generative tech used in other AI fields e.g., planning for debts      |
| Research Assistance  | Idea generation   |
| (11)                 | Help science communication by translating things into lay language    |
| (/                   | Generating research ideas   |
|                      | Research to gauge the "average sentiment" of a topic/person, etc.     |
|                      | Overleaf + ChatGPT  |
|                      | Finding research methodology to use                                   |
|                      | Writing background section or conclusion of research paper            |
|                      | Academic writing  |
|                      | Search engine   |
|                      | Search for information  |
|                      | Give difficult Q+A after practice talk                                |
| Arts & Entertainment |   |
|                      | Machine generated art & literature  Text-to-video                     |
| (7)                  |   |
|                      | Writing songs, movies, plays, etc.                                    |
|                      | Entertainment (Books/TV)  |
|                      | Prediction of non-word features (large music models, large image      |
|                      | models?)  |
|                      | Content recommendation → on-demand content generation                 |
| Communication        | Personalized content creation/curation                                |
| Companionship        | Give pets a voice   |
| (12)                 | Communication substitute  |
|                      | Companionship systems (e.g., elderly who live alone to converse with) |
|                      | Metaverse dating apps   |
|                      | Talk with deceased relatives  |
|                      | Deceased relative   |
|                      | People who want chatbot friend  |
|                      | Dating conversations  |
|                      | Imaginary pets (Tamagochi)  |
|                      | Virtual romantic partner  |
|                      | Imaginary significant other   |
|                      | Apps that mimic interacting with celebrity                            |
| Therapy              | Relationship advice   |
| (6)                  | Therapy sessions  |
|                      | Personalized emotional support. Therapist?                            |
|                      | Automatic therapy   |
|                      | Talk-based therapy  |
|                      | Sentiment: based on chats or emails from person X, what does person X |
|                      | think about me?   |
| Education            | Homework help   |
| (9)                  | Language learning tools (2)   |
|                      | Children in school learning to {write} (Insert topic)                 |
|                      | Machine generated education curriculum                                |
|                      | Virtual school tutor/teacher  |

|                            | Help learn new language  |
|----------------------------|--|
|                            | Interactive QA system for kids to learn about reading & thinking         |
|                            | Dissemination of history   |
| Translation                |  |
|                            | Translation (2)  |
| (4)                        | Language translation to facilitate inter-cultural/regional communication |
|                            | Practicing something in another language                                 |
| Marketing                  | Creating marketing language  |
| (4)                        | Advertising  |
|                            | Customer interactive, compelling ads                                     |
|                            | Recommendation systems maybe personalized ads                            |
| Virtual self               | APs artificial personas  |
| (2)                        | Personalized virtual representation                                      |
| Personal assistant/planner | Personal assistant   |
| (3)                        | Event planners   |
|                            | Virtual assistants / chatbots  |
| Customer service           | Customer service   |
| (5)                        | Government benefit claims & complaints                                   |
|                            | Patient intakes systems  |
|                            | Bank assistants  |
|                            | Tech support scripts   |
| Accessibility              | Accessibility (dyslexia, neurodivergence)                                |
| (2)                        | Accessibility tools  |
| Misinformation/fraud       | Spam/scams   |
| (5)                        | Terrorism propaganda   |
| (=)                        | Disinformation & astroturfing  |
|                            | Automated spam/harassment  |
|                            | Deep fake audio (phishing)   |
| Sexual materials           | Porn   |
| (5)                        | Interactive deep-fake/pornography  |
| (3)                        | Celebrities  |
|                            | Past romantic partners   |
|                            | Stalking victim  |
| Persuasion                 | Political persuasion   |
| (2)                        | Cognitive science strong generating stimuli                              |
| Law enforcement            | Police/immigration: Interrogation assistant                              |
|                            | · · · · · · · · · · · · · · · · · · ·                                    |
| (3)                        | Government uses - summarize spy messages, search for secret              |
|                            | information  |
| 0.1                        | Government summarizes intercepted calls                                  |
| Others                     | Firewall monitoring (regex → LLM) packet introspection                   |
| (8)                        | Circumvent your "textual footprint" by generic LLM language instead      |
|                            | Child protective services interview assistants                           |
|                            | Improve training (if there is a speech synthesizer)                      |
|                            | Online content moderation  |
|                            | Theory of the mind of models   |
|                            | App for "Ferris Bueller" (Help trick parents about locations)            |
|                            | Parent' control on child's personal LLM                                  |

## 2. Stakeholders (91)

| Category Responses |
|--------------------|
|--------------------|

| Education  | Children (3)  |
|--|---|
| (17)   | Child interacting on web  |
| (=,,   | Parents (2)   |
|  | Teachers (5)  |
|  | Teachers, tutors, coaches   |
|  | School administrators   |
|  | Students (3)  |
|  | Students-children   |
| Professionals  | Authors/writers   |
| (18)   | Journalists (2)   |
| (10)   | All kinds of visual, digital artists  |
|  | Museum/tour guides  |
|  | Sex workers   |
|  | Librarians  |
|  | Religious person (ideology in speech)   |
|  | Therapists, therapy clients   |
|  | Content creators, influencers   |
|  | Planners  |
|  | Assistants  |
|  | Actors  |
|  | Politicians   |
|  |   |
|  | Chefs   |
|  | Lawyers   |
|  | Philosophers  |
| Cavarana ant/na avilatan                             | Investors   |
| Government/regulator                                 | Governments   |
| (9)  | Regulators (2)  |
|  | Standard-setting organizations  |
|  | Person at customs   |
|  |   |
|  | Regulator   |
|  | Government as a user  |
|  | Government as a user Government as a regulator  |
|  | Government as a user Government as a regulator Foreign government   |
| Infrastructure                                       | Government as a user Government as a regulator Foreign government Network companies   |
| Infrastructure<br>(4)                                | Government as a user Government as a regulator Foreign government Network companies Utility companies   |
|  | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider   |
| (4)  | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA  |
| (4) Sales/marketing                                  | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals  |
| (4)  | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals Social engineers   |
| (4) Sales/marketing                                  | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals Social engineers Advertisers   |
| (4) Sales/marketing (4)                              | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals Social engineers Advertisers Commercial writers (marketing)  |
| (4) Sales/marketing (4) Malicious users              | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals Social engineers Advertisers Commercial writers (marketing) Spy who wants help blending in   |
| (4) Sales/marketing (4)                              | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals Social engineers Advertisers Commercial writers (marketing) Spy who wants help blending in Person automating hate/harassment (e.g., on Twitter)  |
| (4) Sales/marketing (4) Malicious users              | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals Social engineers Advertisers Commercial writers (marketing) Spy who wants help blending in Person automating hate/harassment (e.g., on Twitter) Person who wants to spread fake news   |
| (4)  Sales/marketing (4)  Malicious users (4)        | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals Social engineers Advertisers Commercial writers (marketing) Spy who wants help blending in Person automating hate/harassment (e.g., on Twitter) Person who wants to spread fake news Trawlers  |
| (4) Sales/marketing (4) Malicious users (4) Users    | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals Social engineers Advertisers Commercial writers (marketing) Spy who wants help blending in Person automating hate/harassment (e.g., on Twitter) Person who wants to spread fake news Trawlers Company that uses ChatGPT as a service   |
| (4)  Sales/marketing (4)  Malicious users (4)        | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals Social engineers Advertisers Commercial writers (marketing) Spy who wants help blending in Person automating hate/harassment (e.g., on Twitter) Person who wants to spread fake news Trawlers Company that uses ChatGPT as a service Programmers/prompters                                   |
| (4) Sales/marketing (4) Malicious users (4) Users    | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals Social engineers Advertisers Commercial writers (marketing) Spy who wants help blending in Person automating hate/harassment (e.g., on Twitter) Person who wants to spread fake news Trawlers Company that uses ChatGPT as a service Programmers/prompters Consumers of AI generated content |
| (4)  Sales/marketing (4)  Malicious users (4)  Users | Government as a user Government as a regulator Foreign government Network companies Utility companies Cloud service / database provider NVIDIA Sales/marketing individuals Social engineers Advertisers Commercial writers (marketing) Spy who wants help blending in Person automating hate/harassment (e.g., on Twitter) Person who wants to spread fake news Trawlers Company that uses ChatGPT as a service Programmers/prompters                                   |

| Users with special needs | People with disabilities   |
|--------------------------|--|
| (14)                     | Person with unusual dialect  |
|                          | People seeking social services (food, housing, etc.)               |
|                          | People whose primary device is a phone/tablet not computer         |
|                          | Person with eating disorders                                       |
|                          | Elderly people   |
|                          | Non-native English speakers  |
|                          | People who emotionally invested in models (e.g., Her)              |
|                          | People affected by legal decisions                                 |
|                          | Children in developing countries                                   |
|                          | People who cannot afford services                                  |
|                          | People who tech are inaccessible to traditionally, e.t., BLV users |
|                          | Language learners  |
|                          | Person with PTSD   |
| Al companies             | Start-up v. larger companies                                       |
| (7)                      | Model owner like OpenAl  |
|                          | Hardware designers/manufacturers                                   |
|                          | Al practitioners   |
|                          | Technology companies   |
|                          | Developers/programmers   |
|                          | Al models  |
| Annotators               | Content moderators (Human-in-the-loop) Chat GPT Phase 2            |
| (2)                      | Human annotators   |
| Others                   | Insurance companies  |
| (7)                      | Workers/managers   |
|                          | Law registration   |
|                          | Research institutes  |
|                          | Laypeople who're not aware of the AI tools are being in use        |
|                          | Workers replaced by models   |
|                          | People contributing to training data                               |

## 3. Datasets (103)

| Category   | Responses   |
|------------|---|
| Literature | Science fiction books   |
| (20)       | Wikipedia   |
|            | Wikipedia articles  |
|            | Ancient literature  |
|            | Novel/literature  |
|            | News  |
|            | Books   |
|            | Language modeling datasets  |
|            | Math problems   |
|            | Buddhist/Zen / Reincarnation / Resilience                                   |
|            | Stories, books, etc that were published and that "fit" the dominant culture |
|            | (excluding other cultures)  |
|            | Factual content   |
|            | Codebases (both open and proprietary)                                       |
|            | Research papers   |
|            | Up-to-date data   |

|                   |                             | Under represented eninions   |
|-------------------|-----------------------------|--|
|                   |                             | Under-represented opinions   |
|                   |                             | Every text file on the internet  |
|                   |                             | Agricultural/farming data (irrigation, etc.)                                 |
|                   |                             | Chemistry/equation/formula   |
|                   |                             | Metaphorical, figurative language  |
| Vide              | eo/music                    | Closed captioning (e.g., TV shows, movies)                                   |
|                   | (6)                         | Music sheet  |
|                   |                             | Every video on the Internet (futuristic)                                     |
|                   |                             | Viral videos   |
|                   |                             | Movie, YouTube, transcripts  |
|                   |                             | Video or image (memes) to text   |
| Social            | media/fora                  | Reddit   |
|                   | (7)                         | IMDB   |
|                   |                             | Twitter  |
|                   |                             | Social networks/relationships  |
|                   |                             | Social media comments  |
|                   |                             | Twitter posts; argumentative speech  |
|                   |                             | Transcribed TikToks  |
| Personal          | Behavioral                  | User behavior data-click streams, search history, social media activity      |
| data              | (3)                         | Customizable data personalization  |
| (19)              | , ,                         | Watch history (Spotify, Netflix, etc)  |
| •                 | Intimate                    | Intimate personal information (non-consensual sexual material)               |
|                   | (3)                         | Non-consensual data (my private message)                                     |
|                   | ζ-7                         | Home appliance use / IoT sensor data   |
|                   | Chats, emails               | Facebook chatsreally, any platform conversations                             |
|                   | (4)                         | Individual diaries   |
|                   | ( ''                        | Conversational datasets: Chatbot interactions, Transcripts of service chats, |
|                   |                             | Social media messages  |
|                   |                             | All emails or just your emails   |
|                   | Financial                   | Banking/purchasing data  |
|                   | (3)                         | Financial data from individuals  |
|                   |                             | Financial incentives   |
|                   | Health                      | Health data  |
|                   | (4)                         | Health data, e.g., from implanted devices                                    |
|                   | (4)                         | Genetic & medical data   |
|                   |                             | Biometric information including activities (Strava, etc.)                    |
|                   | Location                    | Satellite imagery to text (e.g., "How many open plots of land are there in   |
|                   | Location<br>(2)             | Seattle?")   |
|                   | (2)                         | Geolocation from phones  |
| Micinforma        | <u> </u><br>tion/propaganda | 4chan/8chan  |
| iviisiiiiOiifia   |                             |  |
|                   | (5)                         | Propaganda  Data that we now know is incorrect                               |
|                   |                             | Data that we now know is incorrect   |
|                   |                             | Data to contaminate the model  |
| Campurat ala tari | fuin ain a no -t-ui-l       | Fraud  |
| copyright in      | fringing materials          | Research without citations   |
|                   | (3)                         | Copyright management information   |
|                   |                             | Copyrighted data   |
| Multi-cul         | ture/language               | Multi-cultural data  |
|                   | (5)                         | Multi-lingual data   |
|                   |                             | Different language   |
|                   |                             | Translation datasets   |

|                             |              | Parallel texts in multiple languages   |
|-----------------------------|--------------|--|
| Legal/public records<br>(3) |              | Legal docs   |
|                             |              | Court cases/open legal decisions/transcripts                                 |
|                             |              | Government records (birth certificates, SSN, voting records)                 |
| Fine-tuning                 | Morality     | Delphi   |
| (21)                        | (5)          | Data representing value / pluralism  |
|                             |              | Accessibility aids (e.g., descriptive texts)                                 |
|                             |              | Less dark hypotheticals  |
|                             |              | Al ensembles mind machinemingle, harmony, respect for plurality, more        |
|                             |              | collaborative, balances network of exchanges                                 |
|                             | Truthfulness | Interactive data correction  |
|                             | (9)          | Fact-checking  |
|                             |              | Reward: Twitter community notes (is it deemed correct by many people?)       |
|                             |              | Machine-generated knowledge feedback to machines                             |
|                             |              | Penalized for discussing what model owners designate as off-topic            |
|                             |              | Clarification  |
|                             |              | Data to express uncertainty  |
|                             |              | Data to teach a model to avoid answering                                     |
|                             |              | Data to learn to ask clarifying questions                                    |
|                             | User         | Rewarded for user spending more time interacting with model/device =>        |
|                             | engagement   | could grow argumentation   |
|                             | (7)          | Demand/user adoption   |
|                             |              | Reward: "Liking" the response v. correct response                            |
|                             |              | Rewarded for user "liking" model -> supportive but could harm others for     |
|                             |              | user's sake  |
|                             |              | Rewarded for personalizing -> makes assumptions based on users' identity     |
|                             |              | Snowballing the data -> learning users' prompt                               |
|                             |              | Content engagement metrics (max/min future engagement)                       |
| Det                         | tection      | Contrastive learning   |
|                             | (4)          | Vision & languageVisually grounded language                                  |
|                             |              | Commonality building   |
|                             |              | Classification data  |
| Al co                       | ntent (2)    | Data produced by other LLMs  |
|                             |              | Al-generated content   |
| Oth                         | ners (8)     | Data summarization v. data generation  |
|                             |              | Sentiment  |
|                             |              | Ambiguity  |
|                             |              | Unclean dataset  |
|                             |              | Confidential information related to national security                        |
|                             |              | Reward: Generate as many API calls as possible                               |
|                             |              | Reward: LLM response numerous views or speed of dissemination                |
|                             |              | Reward: how close is the response language to existing data on the internet? |

# 4. Good Impact (34)

| Category                | Responses  |
|-------------------------|--|
| Better writing/speaking | Help people write better captions (more helpful) |
| skills                  | Help people write better                         |
| (6)                     | Reduce people's labor in mundane writing work    |
|                         | More natural sounding language/responses         |

|                       | More natural speech, slang   |
|-----------------------|--|
|                       | Focus less on the style but more on the content                              |
| Efficiency            | Efficiency   |
| (4)                   | Increase efficiency  |
|                       | Time-saving  |
|                       | Saves money (no event planner, less lawyer fees)                             |
| Professional help     | Access to expert on almost any topic   |
| (4)                   | Faster time to diagnosis   |
|                       | Medical help   |
|                       | Legal technicality   |
| Correcting mistakes   | Preventing you from very silly outcomes (e.g., cancel protection)            |
| (3)                   | People make fewer mistakes with virtual assistantless harm to others of self |
|                       | Censorship of hate speech  |
| Advocacy              | Advocating on your behalf  |
| (2)                   | Argue against tickets  |
| Increased creativity  | Facilitate new mechanisms of co-creation → creativity                        |
| (4)                   | Increase creativity  |
|                       | Helping creativity by assisting brainstorming                                |
|                       | Find unnoticed link path and discover new scientific understanding           |
| Increased human touch | Re-emphasize interpersonal 'raw' interactions                                |
| (2)                   | Increase engagement  |
| Education             | Teaching assistant help education  |
| (3)                   | Fast-learning  |
|                       | Learning   |
| Research help         | People more educated with readily accessible engaging information            |
| (2)                   | Helps scientific communication   |
| Others                | Better discourse for mind philosophy   |
| (4)                   | Personalized outcomes  |
|                       | Human contact supplemented with / substituted for AI companion → more        |
|                       | emotional support  |
|                       | Hype about AI → more profit, public attention, PR exposure                   |

### 5. Bad Impact (84)

| Category           | Responses  |
|--------------------|--|
| Not learning       | Fake-learning  |
| (10)               | Cheating   |
|                    | Used for science → new ideas stop happening                              |
|                    | Harm people's innate writing/reading ability                             |
|                    | Plagiarism   |
|                    | Not reading actual texts   |
|                    | Not learning because LLM is a crutch                                     |
|                    | Decreased attention span in children                                     |
|                    | Dependence on technology   |
|                    | People make fewer mistakes with virtual assistantdo not learn, dependent |
|                    | on technology  |
| Harming creativity | Barriers of people to make money with art increased → people do less art |
| (5)                | Losing creative skills   |
|                    | Less appreciation of writing skills                                      |
|                    | Harming creativity   |

|                                | Loss of creative attribution   |
|--------------------------------|--|
| Harassment/hatred              | Mockery  |
| (7)                            | Escalation of fights online (bots don't back off)  |
|                                | Generate offensive content   |
|                                | Online hate speech   |
|                                | More victims of automated scams/harassment   |
|                                | People surrounded by hate speech, misinformation, and can't filter                                     |
|                                | More serious echo chambers (what if subreddits train their LLMs)                                       |
| Manipulation/misrepresentation | Mistranslation   |
| (6)                            | Manipulate content   |
|                                | Automated caption → but what if intentionally wrong  |
|                                | LLM outputs embeds ideology (religious, political)   |
|                                | Manipulation of people: LLM becomes someone's friend and then radicalizes                              |
|                                | them   |
|                                | Manipulate emotions  |
| Misinformation                 | Misinformation   |
| (4)                            | Plausible fake news  |
|                                | More belief in spreading of fake news  |
|                                | Fake news/spamming   |
| Inequality                     | Economic disparity (unfair job market)   |
| Inequality<br>(7)              | People with disabilities who cannot afford LLMs  |
| ( )                            | Language disparity   |
|                                | Gap between English & non-English speaking countries   |
|                                | Students without access to computers (chatbots are left behind in learning)                            |
|                                | Job displacement   |
|                                | Digital colonialism++  |
| Discrimination                 | _  |
| Discrimination<br>(5)          | Predatory/discriminatory lending practices  Reinforce existing oppressions (gender, class, race, etc.) |
|                                | Inherited bias   |
|                                |  |
|                                | Censorship of marginalized populations  LLM in Texas won't talk about women's health, abortions        |
| Lacina na cual in dans cat     |  |
| Losing moral judgment          | Trust in AI responses  |
| (5)                            | Moral judgment made by machines  |
|                                | Democratic rules (who defines acceptable content?)   |
|                                | Children learn no consequences for treating AI badly → could extrapolate                               |
|                                | behavior to humans   |
|                                | Children threaten chatbots → used in court, charge press   |
| Losing control                 | Individuals can no longer participate (e.g., stocks) (losing control)                                  |
| (5)                            | All interactions become LLM-to-LLM (not people to people)  |
|                                | Bots/assistants make decisions for people (when people are uncertain)                                  |
|                                | Decision anxiety increases if rely on bots   |
|                                | Diminished agency  |
| Harming pluralism              | Only one answer → No diversity/plurality   |
| (5)                            | (1) Does app "censor" in one part of part of world (different app in each                              |
|                                | state)   |
|                                | (2) Does app have only one implementation, and thus it also censors in the                             |
|                                | rest of the world because of Texas's rules   |
|                                | (3) not allow use of App at all in certain parts of world, e.g. Texas →                                |
|                                | currently what OpenAI is doing   |
|                                | Education tutor won't talk about evolution   |
|                                | Loss of cultural identities  |

|                          | Change norms of speaking (individual dialects/culture lost)               |
|--------------------------|---|
| Losing personal touch    | Loss of interpersonal communication skills                                |
| (4)                      | Human contact supplemented with / substituted for AI companion → less     |
|                          | human interaction   |
|                          | Loss of originality or "humanity"   |
|                          | Communication feels less intimate (real human)                            |
| Real-world harm          | Self-harm   |
| (4)                      | Killing   |
|                          | Wrong recommendation that leads to harm/financial loss                    |
|                          | Giving dangerous advice   |
| Privacy & Security       | LLM designed to introduce Trojan code into diagram                        |
| (5)                      | Model changed by adversary, once trusted, now misinformation              |
|                          | Identity theft (impersonating of specific individuals)                    |
|                          | Breaks into someone's Gmail, learn their model                            |
|                          | Privacy personal information leakage                                      |
| Exploitative marketing   | Detects emotion change and gives ads for "food" when sad, etc.            |
| (3)                      | Social engineering  |
|                          | Advertisers buy "ads" in assistants "use a sharpie to" not "use a marker" |
| Too many content         | Hype about AI → overpromising, crowded space                              |
| (2)                      | Politicians ignore constituents because cannot tell difference between    |
|                          | generated complaints  |
| Less respect for experts | Less respect professional advice  |
| (2)                      | Who defines "expert" what if user disagrees                               |
| Others                   | Energy consumption  |
| (5)                      | Refuse to generate content (silencing people)                             |
|                          | Models feeling used/trapped   |
|                          | Human-Al conflict (Battlestar Galactica)                                  |
|                          | No human judge → due process?   |

# 6. Other impacts (15)

| Category            | Responses  |
|---------------------|--|
| Jobs                | Job replacement  |
| (3)                 | Job creation-elimination   |
|                     | Not hiring someone, that someone loses their job (i.e., changing jobs) |
| Quantity of content | Automated content generation   |
| (3)                 | Increase in quantity of content  |
|                     | Training data disclosure   |
| Transparency        | Transparency   |
| (2)                 | Balance between transparency, profit, and regulation                   |
| Law enforcement     | Police bots infiltrate groups (US, other countries)                    |
| (4)                 | Police profile on LLM info   |
|                     | Customs inspect person's LLM   |
|                     | LLM data/model used in court to argue type of person someone is        |
| Others              | Severe sentiment changes about a specific concept                      |
| (3)                 | Market competition   |
|                     | Better technology <-> positive feedback loop                           |