

IS6713 Project Guidelines | Binary Brains

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Goal of the Study

The City of San Antonio desires to better comprehend public attitudes toward technology and its impact on community life—those related to education and workforce development. Using the comments in the subreddit of San Antonio, the project aims to understand the views regarding technology among the community with regards to job training, education, and daily life. The feedback will guide city leaders in informing their decisions in making digital resources accessible for workforce development efforts.

Task 1: Technology-Related vs. Not Technology-Related

Description

Annotators will annotate each comment based on whether the comment refers to technology, applications relevant to modern life, public services, or community issues.

Instructions for Annotation

Annotators would label the comments using the following labels:

- "1": Technology-Related
- "0": Not Technology-Related

Label "1": Technology-Related

If the comment makes any reference to anything under the definition of technology—including digital tools, platforms, or infrastructure—assign the label "1."

In cases of **ambiguity**, consider the context of the comment. For instance, if technology-related terms/links/website urls are mentioned in a vague, unrelated, or random context, classify the comment as non-tech. Alternatively, base the classification on the predominant sentiment—whether it aligns with technology or not.

The comments can cover these, but certainly not be limited to:

- Digital Platforms, Apps, and Services
References to social media, streaming, e-commerce, public services, or particular applications providing services, such as Uber and Google Maps.
Example: "To apply for jobs, I often use LinkedIn on my phone because it's convenient"

- **IoT Devices and Smart Technology**
Smart technologies are described here, such as home automation devices, wearables, or IoT appliances.
Example: "My Alexa controls the lights in my house."
- **Internet Services and Connectivity**
Internet, WiFi, or a provider connected to the Internet is mentioned.
Example: "Spectrum internet has been very slow lately."
- **Tech Tools and Software**
Considerations of equipment (such as laptops, phones) or software (e.g., Python and Photoshop).
Example: "I use Python for data analysis."
- **Cybersecurity and Privacy**
Provides a leak of discussions on online security and privacy issues, as well as security software.
Example: "I get a lot of phishing emails."
- **Financial Technology**
Cryptocurrency or other digital financial tools.
Example: "Investing in Bitcoin is the future."
- **Automation and AI**
Mention AI, machine learning, or automation technologies.
Example: "The city should use AI to monitor air quality."

Label "0": Not Technology-Related

These comments do not contain any technology references or are unrelated or are instead nonrelated by a tech connection. Few non-technology related comments include:

- **Daily Life and Personal Preferences**
References to routines, personal experiences, or preferences without involvement of technology.
Example: "Having fun at the Riverwalk during the weekend is something I love."
- **Traditional Appliances and Jobs**
Non-smart appliances or jobs are mentioned without a technology context.
Example 1: "I bought a new washing machine."
Example 2: "I work at a local coffee shop."
- **Generic or Vague References to Technology** General comments about tech lacking specifics.

Example: "Technology is changing the world so much, it's fascinating!"

- Transportation and Commuting

Commuting and traveling without mentioning tech terms (such as applications or GPS).

Example: "I took the bus to work today."

- Cultural Events and Local Issues

Mentions of local events, landmarks, or complaints on social and environmental issues unrelated to technology.

Example: "The Alamo is an iconic place."

Task 2: Technology in Education and Workforce Development

Description

This involves making comments on the influence of technology in education and workforce

development: resources in schools, to online job training.

Annotators should use the following labels:

- "1": Technology-Enhanced Education/Workforce Development
- "0": Traditional or Non-Tech Education/Workforce Development

Subtask 1: Technology in Education

Any comment must be assigned either "1" or "0", as described further for the "Education" column:

Label "1": Assign this label to any educational mention about technology in education.

- Online Learning Platforms & Educational Apps:

References thereof primarily involve specific platforms or apps employed in occupational courses or learning enhancement.

Example 1: "I'm taking a Texas history course on Coursera, pretty cool for someone new to San Antonio!"

Example 2: "Quizlet flashcards saved me during my biology class."

- Virtual Classrooms, Hybrid Learning, and Remote Education:

References thereof for the virtual classrooms or hybrid learning settings or the remote education resources.

Example 1: "My high school here in San Antonio has us logging on to Google Classroom to keep up with assignments."

Example 2: "Our university shifted to a hybrid method, where we can now attend classes physically or live stream them online."

- AI and Interactive Learning Tools:

References to AI-powered tutoring, interactive learning software, or classroom technology.

Example 1: "I use this AI app to get calculus help with homework; it's like having a personal tutor on my phone."

Example 2: "We had a lecture in class today where our professor showed an interesting PowerPoint presentation to explain the material."

- Digital & Cloud-Based Resources:

References to e-books, digital libraries, or other cloud-based resources accessible from any device.

Example: "Our school has just started giving access to a virtual library; no more heavy textbooks for us!"

Label "0": This label should only be given to comments that do not refer at all to technology in education such as contexts including but not limited to:

- Traditional Learning Methods:

Mentions of learning without any technology or mention of non-digital methods like textbooks, physical materials, or classroom discussions without tech involvement.

Example 1: "I actually prefer reading from a paperback to e-books for my English class."

Example 2: "We still have paper handouts for quizzes- so guess my school is a bit old school."

- Non-Educational Topics:

Comments unrelated to education or general experiences without any technological reference.

Example 1: "I love spending weekends at the Riverwalk with friends."

Example 2: "San Antonio's food scene is so underrated-best tacos ever!"

Subtask 2: Technology in Workforce Development

In this "Workforce" column, the coder would put a "1" or a "0" as per the instruction given below.

Label "1": It is to be put if the comment features technology in the domain of workforce development, some examples being the following:

- Online Job Training, Certification Programs, and Skill-Building Platforms:

References made to online platforms or certifications meant to provide skill development.

Example 1: "I got my project management certificate through LinkedIn Learning, and it helped me get a promotion!"

Example 2: "I'm using Skillshare to learn graphic design for freelance work in San Antonio."

- Remote Work Tools and Virtual Collaboration:

Instrumentation or applications referenced to support remote work, virtual meetings, or online collaboration.

Example: "Our team uses Slack for project updates since most of us are working from home."

- Professional Development via Webinars and Online Events:

References made to webinars, online networking events, or virtual conferences promoting career advancement.

Example: "I attended a networking event in person and also connected with recruiters via LinkedIn."

- Automated Job Matching and Career Tools:

References made to AI-driven platforms or job portals which offer career suggestions or advice on building individual skills.

Example 1: "I went to the job fair at the San Antonio Convention Center and learned about an online platform where I can upload my resume for potential employers to review."

Example 2: "I got some great interview practice using AI simulations through an online app."

Label "0": The user should assign this label to those comments that do not bring forth any mention of technology in workforce development scenarios, but such scenarios may include:

- Traditional Job Training or Hands-On Learning:

Although face-to-face or hands-on training does not bring in technological involvement.

Example: "My supervisor taught me all about customer service in my first week on the job."

- Non-Tech Professional Development:

Those developments by reference to technology in the mentorship at person-to-person level or just local job fairs.

Example: "I went to a job fair at the San Antonio Convention Center to network with potential employers."

- General Work Experience:

A statement with this work, career transitions, general job experiences, with or without mentions of technology especially, among general work experience examples.

Example: "I've been in retail for five years and want to try something new."