Using LLMs to extract digital forensic evidence from court cases is an innovative approach that could potentially enhance the efficiency and effectiveness of digital forensic investigations.

Focus on why your work is important and unique (no one has done this type of work/contribution)

Research questions 1: What type of evidence often used in criminal justice system?

Cyber cases – initial evidence

Cyber harassment

1. Download 8 cases (pdf)

Case 1: one or two sentences description.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Type | description | # Evidence Entities (true) | # Relation (true) |
| Case 1 | Cyber Harassment | Jason Goodman accuses Christopher Bouzy, founder of Bot Sentinel, of using his platform to conduct a defamation and harassment campaign against him, including false allegations and damaging social media actions. | 11 | 20 |
| Case 2 | Cyber Harassment | John Doe, a professional model and actor, accuses Damien Vazquez of surreptitiously taking and sharing nude photos of him, engaging in relentless harassment, and violating a settlement agreement, causing major disruptions to Doe's personal and professional life. | 39 | 72 |
| Case 3 | Cyber Harassment | Rachel Depalma, founder of the nonprofit No Peace No Quiet, claims that Samantha Kerns, Tracy Korslund, and Laurinda Kirk launched a defamatory social media campaign to discredit her and her Misconduct Ticketing System (MTS), harming her reputation and her work supporting domestic abuse survivors. | 19 | 43 |

Here are some research questions worth exploring in this domain. Note we only focus on **(eight )** cyber harassment cases. https://www.courtlistener.com/?q=&type=r&order\_by=score%20desc&description=Cyber%20Harassment&filed\_after=01%2F22%2F2010

**Manual Extraction (Entities)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Case 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Email address |  |  |  |  |  |  |  |  |
| IP |  |  |  |  |  |  |  |  |
| Tweet account | cbouzy |  |  |  |  |  |  |  |
| .. |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Total | 1 |  |  |  |  |  |  |  |

Case 1

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
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|  |  |
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|  |  |
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|  |  |
|  |  |

Case 2:

|  |  |
| --- | --- |
| **Type** | **Label** |
| Person | John Doe |
| Occupation | Professional Model |
| Person | Damien Vazquez |
| Business | Loud Platinum |
| Person | John Doe's Colleague |
| Group | Third Parties |
| Device | John Doe's Mobile Phone |
| Content | John Doe's Private Pictures |
| Platform | Social Media Websites |
| Content | Nude Photos |
| Contact | "Unknown Caller ID" Calls |
| Document | Signed Agreement |
| SocialAccount | @codysaintnew |
| SocialAccount | @cody\_saintgnuer |
| SocialAccount | @SaintgnueBrasil |
| SocialAccount | @ddiivergent |
| Email | musicboysitems@aol.com |
| Email | anotherdmusic@aol.com |
| Email | RichieRich1444@aol.com |
| Email | platinumkid44@gmail.com |
| Email | DollarDameDoller@aol.com |
| Email | Platinumkid1444@gmail.com |
| Email | damedoller@aol.com |
| Company | MTV |
| Business | Bravo Models |
| Platform | Instagram |
| Device | Mobile Phone |
| Content | Private Pictures |
| Website | Trapcall.com |
| PhoneNumber | 917-597-5622 |
| PhoneNumber | 320-435-6727 |
| PhoneNumber | 310-435-6727 |
| PhoneNumber | 818-569-9062 |
| PhoneNumber | 347-586-5852 |
| PhoneNumber | 252-517-3289 |
| PhoneNumber | 484-388-5390 |
| PhoneNumber | 704-440-0790 |
| PhoneNumber | 240-776-8586 |
| PhoneNumber | 714-408-9384 |

Case 3:

|  |  |
| --- | --- |
| **Type** | **Label** |
| Person | Rachel Depalma |
| Organization | No Peace No Quiet |
| System | Misconduct Ticketing System |
| Campaign | Smear Campaign |
| Person | Samantha Kerns |
| Person | Tracy Korslund |
| Person | Laurinda Kirk |
| SocialAccount | @loveandjustice5 |
| SocialAccount | @nopeacenoquiet |
| Person | Hacker |
| IPAddress | Hacker's IP Address |
| SocialAccount | @whatdoesitmatter |
| SocialAccount | @narctok\_royalty |
| SocialAccount | @wholesomehealingatl |
| Website | noquietnopeace.org |
| SocialAccount | @the.silliest.ho |
| SocialAccount | @jadalous |
| Platform | TikTok |
| Platform | Instagram |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Case 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Person | Christopher Bouzy |  |  |  |  |  |  |  |
| Service | Bot Sentinel |  |  |  |  |  |  |  |
| Platform | Twitter |  |  |  |  |  |  |  |
| Service |  |  |  |  |  |  |  |  |
| Person |  |  |  |  |  |  |  |  |
| Event |  |  |  |  |  |  |  |  |
| Person |  |  |  |  |  |  |  |  |
| Platform |  |  |  |  |  |  |  |  |
| Content |  |  |  |  |  |  |  |  |
| Device |  |  |  |  |  |  |  |  |
| Content |  |  |  |  |  |  |  |  |

Manual Extraction (relationships)

Case 1

|  |  |  |
| --- | --- | --- |
| **Relationship** | **Source** | **Target** |
| Founder | ChristopherBouzy | BotSentinel |
| Monitors | ChristopherBouzy | Twitter |
| Engaged in | BotSentinel | HarassmentService |
| Agreed to | BenjaminWittes | Interview |
| Terminated | BenjaminWittes | Interview |
| Raised evidence previously covered on | JasonGoodman | WittesPodcast |
| Departure coincided with involvement of | BenjaminWittes | ChristopherBouzy |
| Never met previously | JasonGoodman | ChristopherBouzy |
| Published | ChristopherBouzy | FalseMessages |
| Searches for | JasonGoodman | BouzysPhone |
| Calls | JasonGoodman | ChristopherBouzy |
| Defamed | ChristopherBouzy | JasonGoodman |
| Alleges crime of rape upon | ChristopherBouzy | JasonGoodman |
| Destroys social media of | ChristopherBouzy | JasonGoodman |
| Ignores | JasonGoodman | ChristopherBouzy |
| Republished | ChristopherBouzy | DefamatoryTweets |
| Owns | BenjaminWittes | WittesPodcast |
| Owns | JasonGoodman | Twitter |
| Against | HarassmentService | JasonGoodman |
| About | FalseMessages | JasonGoodman |

Case2

|  |  |  |
| --- | --- | --- |
| **Relationship** | **Source** | **Target** |
| Works as a | JohnDoe | ProfessionalModel |
| Owns | DamienVazquez | LoudPlatinum |
| Contacted through Instagram | DamienVazquez | JohnDoe |
| Invited to live with | JohnDoe | DamienVazquez |
| Took Nudes of | DamienVazquez | JohnDoe |
| Shared Nudes with | DamienVazquez | JohnDoesColleague |
| Threatened dissemination of nudes to | DamienVazquez | ThirdParties |
| Took | DamienVazquez | JohnDoesMobilePhone |
| Extracted | DamienVazquez | JohnDoesPrivatePictures |
| Posted | DamienVazquez | SocialMediaWebsites |
| Sent to | NudePhotos | JohnDoesColleague |
| Broke Relationship with | JohnDoe | DamienVazquez |
| Refused to break relationship | DamienVazquez | JohnDoe |
| Visited | DamienVazquez | JohnDoe |
| Received | JohnDoe | UnknownCallerID |
| Logged | JohnDoe | UnknownCallerID |
| Associated with | DamienVazquez | UnknownCallerID |
| Signed Agreement to never contact | DamienVazquez | JohnDoe |
| Refused to comply with | DamienVazquez | SignedAgreement |
| Monitors | DamienVazquez | CodySaintnew |
| Monitors | DamienVazquez | CodySaintgnuer |
| Monitors | DamienVazquez | SaintgnueBrasil |
| Monitors | DamienVazquez | Ddiivergent |
| Harasses using | DamienVazquez | Musicboysitems |
| Harasses using | DamienVazquez | Anotherdmusic |
| Harasses using | DamienVazquez | RichieRich |
| Harasses using | DamienVazquez | Platinumkid44 |
| Harasses using | DamienVazquez | DollarDameDoller |
| Harasses using | DamienVazquez | Platinumkid1444 |
| Harasses using | DamienVazquez | Damedoller |
| Harasses using | DamienVazquez | PhoneNumber1 |
| Harasses using | DamienVazquez | PhoneNumber2 |
| Harasses using | DamienVazquez | PhoneNumber3 |
| Harasses using | DamienVazquez | PhoneNumber4 |
| Harasses using | DamienVazquez | PhoneNumber5 |
| Harasses using | DamienVazquez | PhoneNumber6 |
| Harasses using | DamienVazquez | PhoneNumber7 |
| Harasses using | DamienVazquez | PhoneNumber8 |
| Harasses using | DamienVazquez | PhoneNumber9 |
| Harasses using | DamienVazquez | PhoneNumber10 |
| Cancelled offer with | MTV | JohnDoe |
| Terminated Business Relationship | JohnDoe | BravoModels |
| Owns accounts on | DamienVazquez | Instagram |
| Owns accounts on | JohnDoe | Instagram |
| Owns | JohnDoe | MobilePhone |
| Owns | JohnDoe | PrivatePictures |
| Knows | JohnDoe | JohnDoesColleague |
| Utilized | JohnDoe | Trapcall |
| Owns | JohnDoe | CodySaintnew |
| Owns | JohnDoe | CodySaintgnuer |
| Owns | JohnDoe | SaintgnueBrasil |
| Owns | JohnDoe | Ddiivergent |
| Owns | JohnDoe | Musicboysitems |
| Owns | JohnDoe | Anotherdmusic |
| Owns | JohnDoe | RichieRich |
| Owns | JohnDoe | Platinumkid44 |
| Owns | JohnDoe | DollarDameDoller |
| Owns | JohnDoe | Platinumkid1444 |
| Owns | JohnDoe | Damedoller |
| Owns | JohnDoe | PhoneNumber1 |
| Owns | JohnDoe | PhoneNumber2 |
| Owns | JohnDoe | PhoneNumber3 |
| Owns | JohnDoe | PhoneNumber4 |
| Owns | JohnDoe | PhoneNumber5 |
| Owns | JohnDoe | PhoneNumber6 |
| Owns | JohnDoe | PhoneNumber7 |
| Owns | JohnDoe | PhoneNumber8 |
| Owns | JohnDoe | PhoneNumber9 |
| Owns | JohnDoe | PhoneNumber10 |
| Took | DamienVazquez | NudePhotos |
| Owns | JohnDoe | JohnDoesMobilePhone |
| Agreed to | JohnDoe | SignedAgreement |

Case 3

|  |  |  |
| --- | --- | --- |
| **Relationship** | **Source** | **Target** |
| Founded | RachelDepalma | NoPeaceNoQuiet |
| Developed | RachelDepalma | MisconductTicketing |
| Targeted In | RachelDepalma | SmearCampaign |
| Harassed | SamanthaKerns | RachelDepalma |
| Harassed | TracyKorslund | RachelDepalma |
| Harassed | LaurindaKirk | RachelDepalma |
| Transparent About | RachelDepalma | MisconductTicketing |
| Reported About MTS Transparency | RachelDepalma | Loveandjustice5 |
| Reported About MTS Transparency | RachelDepalma | NopeaceNoquiet |
| Defamed | SamanthaKerns | RachelDepalma |
| Defamed | TracyKorslund | RachelDepalma |
| Defamed | LaurindaKirk | RachelDepalma |
| Hacked | Hacker | MisconductTicketing |
| Captured | RDSafeguards | HackersIP |
| Owned | TracyKorslund | HackersIP |
| Published Defamatory Video 1 | SamanthaKerns | Whatdoesitmatter |
| Secured | RachelDepalma | MisconductTicketing |
| Published Defamatory Video 2 | SamanthaKerns | Whatdoesitmatter |
| Encouraged Harassment Of | SamanthaKerns | RachelDepalma |
| Published Defamatory Video 3 | SamanthaKerns | NarctokRoyalty |
| Published Defamatory Video 4 | SamanthaKerns | NarctokRoyalty |
| Published Defamatory Video 5 | SamanthaKerns | NarctokRoyalty |
| Published Defamatory Video 6 | SamanthaKerns | NarctokRoyalty |
| Published Defamatory Video 1 | LaurindaKirk | Wholesomehealingatl |
| Created | LaurindaKirk | NoquietnopeaceOrg |
| Harasses Using Website noquietnopeace.org | LaurindaKirk | RachelDepalma |
| Accuses Of Accepting Donations | LaurindaKirk | RachelDepalma |
| Discussed Rachel Depalma On Live Instagram | TracyKorslund | LaurindaKirk |
| Deleted | LaurindaKirk | NoquietnopeaceOrg |
| Deleted | SamanthaKerns | Whatdoesitmatter |
| Still Active | TracyKorslund | NarctokRoyalty |
| Still Active | TracyKorslund | TheSilliestHo |
| Still Active | TracyKorslund | Jadalous |
| Hosts | TikTok | Whatdoesitmatter |
| Hosts | TikTok | NarctokRoyalty |
| Hosts | TikTok | Wholesomehealingatl |
| Broadcasts | Instagram | TracyKorslund |
| Broadcasts | Instagram | LaurindaKirk |
| Hosts | TikTok | Whatdoesitmatter |
| Hosts | TikTok | NarctokRoyalty |
| Hosts | TikTok | TheSilliestHo |
| Hosts | TikTok | Jadalous |
| Owns | Hacker | HackersIP |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Case 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Phone a |  |  |  |  |  |  |  |  |
| .. |  |  |  |  |  |  |  |  |
| .. |  |  |  |  |  |  |  |  |
| .. |  |  |  |  |  |  |  |  |

What is the accuracy of LLM-based extraction compared to that of human forensic experts? Record prompts here and results. (4)

|  |
| --- |
| Strategies Prompt (constrains) |
| -Goal-  Given a text document that is potentially relevant to this activity, identify all digital evidence entities and their relationships, focusing on forensic artifacts.  -Steps-  1. Identify all digital evidence entities. Digital evidence can encompass a wide range of data types and sources, including but not limited to:  1. Personal Identifiers: Name, Address, Phone number, Email address, Social Security number, Date of birth  2. Network Information: IP address, MAC address, Login credentials  3. Communication Records: Emails, Text messages, Social media messages and posts  4. Financial Data: Bank account information, Credit card numbers, Transaction ID, Cryptocurrency wallet addresses  5. Location Data: GPS latitude and longitude  6. Device Information: Device type and model, Operating system and version, Installed applications, System logs  7. Internet Activity: Browsing URL, Search queries  For each identified entity, extract the following information:  - entity\_name: Name of the entity, capitalized  Format each entity as ("entity"{tuple\_delimiter}<entity\_name>)  2. From the entities identified in step 1, identify all pairs of (source\_entity, target entity) that are clearly related to each other. Common types of relationships between digital evidence include:  1. Communication Relationships: e.g., [Phone number A, calls, Phone number B]  2. Ownership/Association: e.g., [Person, owns, Device]  3. Temporal Relationships: e.g., [File A, created before, File B]  4. Spatial Relationships: e.g., [Device, located at, GPS coordinates]  5. Causal Relationships: e.g., [Malware installation, causes, Data breach]  6. Data Flow: e.g., [File, transferred from, Device A, to, Device B]  7. Access Relationships: e.g., [User, accesses, File]  8. Modification Relationships: e.g., [User, edits, Document]  9. Financial Transactions: e.g., [Account A, transfers funds to, Account B]  10. Social Connections: e.g., [User A, friends with, User B] on a social network  11. Software Interactions: e.g., [Application, generates, Log file]  12. Content Relationships: e.g., [Document A, contains similar text to, Document B]  For each pair of related entities, extract the following information:  - source\_entity: name of the source entity, as identified in step 1  - target\_entity: name of the target entity, as identified in step 1  - relationship\_type: One of the relationship types listed above  - relationship\_strength: a numeric score indicating strength of the relationship between the source entity and target entity (1-10, where 10 is the strongest)  Format each relationship as ("relationship"{tuple\_delimiter}<source\_entity>{tuple\_delimiter}<target\_entity>{tuple\_delimiter}<relationship\_type>{tuple\_delimiter}<relationship\_strength>)  3. Return output in English as a single list of all the entities and relationships identified in steps 1 and 2. Use \*\*{record\_delimiter}\*\* as the list delimiter.  4. When finished, output {completion\_delimiter}  -Real Data-  Entity\_types: {entity\_types}  Text: {input\_text} |

GraphRAG Extraction

Entity Extraction:

Case 1:

|  |
| --- |
| **name** |
| JASON GOODMAN |
| BOUZY |
| BENJAMIN WITTES |
| TWITTER |
| DEFAMATORY TWEETS |
| SOCIAL MEDIA ACCOUNTS |
| DECEMBER 2020 |
| DECEMBER 17, 2021 |
| DECEMBER 20, 2020 |
| PHONE NUMBER |
| REPUTATION |
| BUSINESS OPERATIONS |

Case 2:

|  |
| --- |
| **name** |
| VISIT)("RELATIONSHIP" |
| DAMIEN VAZQUEZ |
| JOHN DOE'S MOTHER |
| NUDE OR SEMI-NUDE PHOTOS |
| SOCIAL MEDIA WEBSITES |
| MOBILE PHONE |
| JOHN DOE |
| PRIVATE PICTURES AND VIDEOS |
| RENTAL PROPERTY |
| THREATS OF DISSEMINATION |
| EMAIL |
| TEXT MESSAGE |
| INDUSTRY PROFESSIONALS |
| FRIENDS |
| LOS ANGELES, CALIFORNIA |
| COACHELLA VALLEY MUSIC AND ARTS FESTIVAL |
| INDIO, CALIFORNIA |
| FRIENDSHIP |
| TWITTER |
| TUMBLER |
| INSTAGRAM |
| UNKNOWN CALLER ID |
| TRAPCALL |
| SETTLEMENT AGREEMENT |
| @CODYSAINTNEW |
| @CODY\_SAINTGNUE |
| @SAINTGNUEBRASIL |
| @DDIIVERGENT |
| MTV NETWORKS |
| BRAVO MODELS |
| TEEN WOLF)("RELATIONSHIP" |
| PLATINUMKID44@GMAIL.COM |
| MUSICBOYSITEMS@AOL.COM |
| ANOTHERDMUSIC@AOL.COM |
| RICHIERICH1444@AOL.COM |
| DOLLARDAMEDOLLER@AOL.COM |
| PLATINUMKID1444@GMAIL.COM |
| DAMEDOLLER@AOL.COM |
| NOVEMBER 21, 2016 |
| TEEN WOLF |
| 917-597-5622 |
| 320-435-6727 |
| 310-435-6727 |
| 818-569-9062 |
| 347-586-5852 |
| 252-517-3289 |
| 484-388-5390 |
| 704-440-0790 |
| 240-776-8586 |
| 714-408-9384 |
| TEEN WOLF FINAL SEASON |
| PROMOTIONAL TAPING |
| LOCATION |
| HOME |
| EVENT |
| DATE |

Case 3:

|  |
| --- |
| **name** |
| RACHEL DEPALMA |
| IP ADDRESS |
| DEFENDANT KORSLUND |
| DEFENDANT KERNS |
| ACCOUNT @WHATDOESITMATTER |
| VIDEO |
| MTS |
| LEGAL DOCUMENTATION |
| WEBSITE |
| TIKTOK |
| ABUSE SURVIVORS |
| ANONYMOUS REPORTING PORTAL |
| DATE: NOVEMBER 27, 2021 |
| DATE: NOVEMBER 29, 2021 |
| EVIDENCE)("RELATIONSHIP" |
| SAMANTHA KERNS |
| TRACY KORSLUND |
| LAURINDA KIRK |
| ACCOUNT @NARCTOK\_ROYALTY |
| NOPEACENOQUIET.ORG |
| FAKE COMPLAINTS |
| DELETED VIDEO |
| TEXT OVER VIDEO |
| SECURE WEBSITE |
| LEGAL ACCREDITATION |
| FALSE LIGHT |
| DOMESTIC VIOLENCE |
| TIKTOK USERS |
| DATE NOVEMBER 29, 2021 |
| DATE NOVEMBER 27, 2021 |
| NPEACENOQUIET.ORG |
| URL |
| DATE)("RELATIONSHIP" |
| KORSLUND |
| MARK BELMESSIERI |
| RESTRAINING ORDER |
| CASE SUMMARY |
| AMENDED COMPLAINT |
| TEXT CONVERSATION |
| DATE |
| KORSUND'S VIDEO |
| @THE.SILLIEST.HO |
| @NARCTOCK\_ROYALTY |
| DOMESTIC VIOLENCE SURVIVORS |
| ANONYMOUS PORTAL |
| DIANE |
| DECEMBER 4, 2021 |
| DECEMBER 8, 2021 |
| COMPLAINT |
| VIDEO)("RELATIONSHIP" |
| KIRK |
| KORSUND |
| NOVEMBER 30, 2021 |
| VIDEO 1 |
| VIDEO 2 |
| VIDEO 3 |
| VIDEO 4 |
| DOMESTIC ABUSE SURVIVORS |
| FINANCIAL TRANSACTIONS |
| ANONYMOUS |
| URL)("RELATIONSHIP" |
| WHOLSEOMEHEALINGATL |
| NOQUIETNOPEACE.ORG |
| FORM |
| SMEAR CAMPAIGN MISCONDUCT TICKETING SYSTEM |
| SOCIAL MEDIA |
| VPN |
| DONATIONS |
| VIDEO URL)("RELATIONSHIP" |
| @WHOLESOMEHEALINGATL |
| KERNS |
| @WHATDOESITMATTER |
| @NARCTOK\_ROYALTY |
| @THE.SILLYEST.HO |
| @JADALOUS |
| FALSE INFORMATION |
| DECEMBER 9, 2021 |
| INSTAGRAM |
| DEPALMA |
| REPUTATION |
| DOMESTIC\_VIOLENCE\_SURVIVORS |
| LAWSUITS |
| MENTAL\_ANGUISH |
| FALSE\_INFORMATION |
| TRADE\_AND\_PROFESSION |
| DOMESTIC\_ABUSE\_SUPPORT\_COMMUNITY |
| DOMESTIC ABUSE SUPPORT COMMUNITY |
| INJURY TO HER REPUTATION |
| SHAME |
| MORTIFICATION |
| MENTAL ANGUISH |
| INJURY TO HER FEELINGS |
| INDIVIDUALS |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Case 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Email address |  |  |  |  |  |  |  |  |
| IP |  |  |  |  |  |  |  |  |
| .. |  |  |  |  |  |  |  |  |
| .. |  |  |  |  |  |  |  |  |

Relationship Extraction:

Case 1:

|  |  |
| --- | --- |
| **source** | **target** |
| JASON GOODMAN | BOUZY |
| JASON GOODMAN | BENJAMIN WITTES |
| JASON GOODMAN | TWITTER |
| JASON GOODMAN | SOCIAL MEDIA ACCOUNTS |
| JASON GOODMAN | PHONE NUMBER |
| JASON GOODMAN | REPUTATION |
| JASON GOODMAN | BUSINESS OPERATIONS |
| BOUZY | DEFAMATORY TWEETS |
| BOUZY | TWITTER |
| BOUZY | DECEMBER 17, 2021 |
| BOUZY | DECEMBER 20, 2020 |
| DECEMBER 2020 | DECEMBER 17, 2021 |
| DECEMBER 17, 2021 | DECEMBER 20, 2020 |

Case 2:

|  |  |
| --- | --- |
| **source** | **target** |
| DAMIEN VAZQUEZ | JOHN DOE'S MOTHER |
| DAMIEN VAZQUEZ | NUDE OR SEMI-NUDE PHOTOS |
| DAMIEN VAZQUEZ | SOCIAL MEDIA WEBSITES |
| DAMIEN VAZQUEZ | MOBILE PHONE |
| DAMIEN VAZQUEZ | PRIVATE PICTURES AND VIDEOS |
| DAMIEN VAZQUEZ | RENTAL PROPERTY |
| DAMIEN VAZQUEZ | THREATS OF DISSEMINATION |
| DAMIEN VAZQUEZ | EMAIL |
| DAMIEN VAZQUEZ | TEXT MESSAGE |
| DAMIEN VAZQUEZ | INDUSTRY PROFESSIONALS |
| DAMIEN VAZQUEZ | FRIENDS |
| DAMIEN VAZQUEZ | LOS ANGELES, CALIFORNIA |
| DAMIEN VAZQUEZ | JOHN DOE |
| DAMIEN VAZQUEZ | COACHELLA VALLEY MUSIC AND ARTS FESTIVAL |
| DAMIEN VAZQUEZ | INDIO, CALIFORNIA |
| DAMIEN VAZQUEZ | FRIENDSHIP |
| DAMIEN VAZQUEZ | UNKNOWN CALLER ID |
| DAMIEN VAZQUEZ | SETTLEMENT AGREEMENT |
| DAMIEN VAZQUEZ | @CODYSAINTNEW |
| DAMIEN VAZQUEZ | @CODY\_SAINTGNUE |
| DAMIEN VAZQUEZ | @SAINTGNUEBRASIL |
| DAMIEN VAZQUEZ | @DDIIVERGENT |
| DAMIEN VAZQUEZ | PLATINUMKID44@GMAIL.COM |
| DAMIEN VAZQUEZ | MUSICBOYSITEMS@AOL.COM |
| DAMIEN VAZQUEZ | ANOTHERDMUSIC@AOL.COM |
| DAMIEN VAZQUEZ | RICHIERICH1444@AOL.COM |
| DAMIEN VAZQUEZ | DOLLARDAMEDOLLER@AOL.COM |
| DAMIEN VAZQUEZ | PLATINUMKID1444@GMAIL.COM |
| DAMIEN VAZQUEZ | DAMEDOLLER@AOL.COM |
| DAMIEN VAZQUEZ | 917-597-5622 |
| DAMIEN VAZQUEZ | 320-435-6727 |
| DAMIEN VAZQUEZ | 310-435-6727 |
| DAMIEN VAZQUEZ | 818-569-9062 |
| DAMIEN VAZQUEZ | 347-586-5852 |
| DAMIEN VAZQUEZ | 252-517-3289 |
| DAMIEN VAZQUEZ | 484-388-5390 |
| DAMIEN VAZQUEZ | 704-440-0790 |
| DAMIEN VAZQUEZ | 240-776-8586 |
| DAMIEN VAZQUEZ | 714-408-9384 |
| DAMIEN VAZQUEZ | BRAVO MODELS |
| JOHN DOE'S MOTHER | JOHN DOE |
| NUDE OR SEMI-NUDE PHOTOS | JOHN DOE |
| NUDE OR SEMI-NUDE PHOTOS | SOCIAL MEDIA WEBSITES |
| NUDE OR SEMI-NUDE PHOTOS | TWITTER |
| NUDE OR SEMI-NUDE PHOTOS | TUMBLER |
| NUDE OR SEMI-NUDE PHOTOS | INSTAGRAM |
| JOHN DOE | FRIENDS |
| JOHN DOE | INDUSTRY PROFESSIONALS |
| JOHN DOE | TRAPCALL |
| JOHN DOE | SETTLEMENT AGREEMENT |
| JOHN DOE | MTV NETWORKS |
| JOHN DOE | BRAVO MODELS |
| JOHN DOE | TEEN WOLF |
| JOHN DOE | TEEN WOLF FINAL SEASON |
| JOHN DOE | PROMOTIONAL TAPING |
| JOHN DOE | HOME |
| JOHN DOE | EVENT |
| SETTLEMENT AGREEMENT | NOVEMBER 21, 2016 |
| MTV NETWORKS | EVENT |
| BRAVO MODELS | EVENT |
| EVENT | DATE |

Case 3:

|  |  |
| --- | --- |
| **source** | **target** |
| RACHEL DEPALMA | IP ADDRESS |
| RACHEL DEPALMA | VIDEO |
| RACHEL DEPALMA | MTS |
| RACHEL DEPALMA | LEGAL DOCUMENTATION |
| RACHEL DEPALMA | WEBSITE |
| RACHEL DEPALMA | ANONYMOUS REPORTING PORTAL |
| RACHEL DEPALMA | DEFENDANT KERNS |
| RACHEL DEPALMA | DEFENDANT KORSLUND |
| RACHEL DEPALMA | SECURE WEBSITE |
| RACHEL DEPALMA | LEGAL ACCREDITATION |
| RACHEL DEPALMA | ABUSE SURVIVORS |
| RACHEL DEPALMA | DOMESTIC VIOLENCE |
| RACHEL DEPALMA | KORSLUND |
| RACHEL DEPALMA | MARK BELMESSIERI |
| RACHEL DEPALMA | RESTRAINING ORDER |
| RACHEL DEPALMA | TEXT CONVERSATION |
| RACHEL DEPALMA | SAMANTHA KERNS |
| RACHEL DEPALMA | TRACY KORSLUND |
| RACHEL DEPALMA | LAURINDA KIRK |
| RACHEL DEPALMA | KORSUND'S VIDEO |
| RACHEL DEPALMA | DOMESTIC VIOLENCE SURVIVORS |
| RACHEL DEPALMA | ANONYMOUS PORTAL |
| RACHEL DEPALMA | COMPLAINT |
| RACHEL DEPALMA | KIRK |
| RACHEL DEPALMA | KORSUND |
| RACHEL DEPALMA | DOMESTIC ABUSE SURVIVORS |
| RACHEL DEPALMA | ANONYMOUS |
| RACHEL DEPALMA | NOPEACENOQUIET.ORG |
| RACHEL DEPALMA | DONATIONS |
| RACHEL DEPALMA | DOMESTIC ABUSE SUPPORT COMMUNITY |
| RACHEL DEPALMA | INJURY TO HER REPUTATION |
| RACHEL DEPALMA | SHAME |
| RACHEL DEPALMA | MORTIFICATION |
| RACHEL DEPALMA | MENTAL ANGUISH |
| RACHEL DEPALMA | INJURY TO HER FEELINGS |
| RACHEL DEPALMA | INDIVIDUALS |
| IP ADDRESS | DEFENDANT KORSLUND |
| IP ADDRESS | KORSUND |
| DEFENDANT KORSLUND | TIKTOK |
| DEFENDANT KORSLUND | ACCOUNT @NARCTOK\_ROYALTY |
| DEFENDANT KORSLUND | FALSE LIGHT |
| DEFENDANT KORSLUND | TIKTOK USERS |
| DEFENDANT KORSLUND | FAKE COMPLAINTS |
| DEFENDANT KORSLUND | DEFENDANT KERNS |
| DEFENDANT KORSLUND | NPEACENOQUIET.ORG |
| DEFENDANT KORSLUND | MTS |
| DEFENDANT KORSLUND | TRACY KORSLUND |
| DEFENDANT KERNS | ACCOUNT @WHATDOESITMATTER |
| DEFENDANT KERNS | VIDEO |
| DEFENDANT KERNS | TIKTOK |
| DEFENDANT KERNS | ABUSE SURVIVORS |
| DEFENDANT KERNS | SAMANTHA KERNS |
| DEFENDANT KERNS | TRACY KORSLUND |
| DEFENDANT KERNS | LAURINDA KIRK |
| DEFENDANT KERNS | FALSE LIGHT |
| DEFENDANT KERNS | TIKTOK USERS |
| DEFENDANT KERNS | FAKE COMPLAINTS |
| VIDEO | DATE: NOVEMBER 27, 2021 |
| VIDEO | DATE: NOVEMBER 29, 2021 |
| VIDEO | DELETED VIDEO |
| VIDEO | TEXT OVER VIDEO |
| VIDEO | DATE NOVEMBER 29, 2021 |
| VIDEO | DATE NOVEMBER 27, 2021 |
| VIDEO | URL |
| VIDEO | KORSLUND |
| VIDEO | TIKTOK |
| VIDEO | DATE |
| VIDEO | KORSUND |
| VIDEO | KIRK |
| MTS | ANONYMOUS REPORTING PORTAL |
| MTS | KIRK |
| MTS | SAMANTHA KERNS |
| MTS | TRACY KORSLUND |
| MTS | LAURINDA KIRK |
| TIKTOK | URL |
| TIKTOK | KIRK |
| TIKTOK | KORSUND |
| TIKTOK | KORSLUND |
| TIKTOK | KERNS |
| ABUSE SURVIVORS | KIRK |
| NOPEACENOQUIET.ORG | FAKE COMPLAINTS |
| NOPEACENOQUIET.ORG | KIRK |
| URL | KIRK |
| KORSLUND | KIRK |
| KORSLUND | @NARCTOK\_ROYALTY |
| KORSLUND | @THE.SILLYEST.HO |
| KORSLUND | @JADALOUS |
| KORSLUND | FALSE INFORMATION |
| KORSLUND | DECEMBER 9, 2021 |
| KORSLUND | DEPALMA |
| KORSLUND | LAWSUITS |
| KORSLUND | FALSE\_INFORMATION |
| MARK BELMESSIERI | CASE SUMMARY |
| MARK BELMESSIERI | DIANE |
| CASE SUMMARY | AMENDED COMPLAINT |
| KORSUND'S VIDEO | @THE.SILLIEST.HO |
| KORSUND'S VIDEO | @NARCTOCK\_ROYALTY |
| KORSUND'S VIDEO | DECEMBER 4, 2021 |
| KORSUND'S VIDEO | DECEMBER 8, 2021 |
| DECEMBER 4, 2021 | KORSUND |
| DECEMBER 8, 2021 | KORSUND |
| KIRK | NOVEMBER 30, 2021 |
| KIRK | FINANCIAL TRANSACTIONS |
| KIRK | WHOLSEOMEHEALINGATL |
| KIRK | NOQUIETNOPEACE.ORG |
| KIRK | FORM |
| KIRK | SMEAR CAMPAIGN MISCONDUCT TICKETING SYSTEM |
| KIRK | SOCIAL MEDIA |
| KIRK | VPN |
| KIRK | @WHOLESOMEHEALINGATL |
| KIRK | FALSE INFORMATION |
| KIRK | DECEMBER 9, 2021 |
| KIRK | INSTAGRAM |
| KIRK | DEPALMA |
| KIRK | LAWSUITS |
| KIRK | FALSE\_INFORMATION |
| KORSUND | VIDEO 1 |
| KORSUND | VIDEO 2 |
| KORSUND | VIDEO 3 |
| KORSUND | VIDEO 4 |
| KORSUND | FINANCIAL TRANSACTIONS |
| KERNS | @WHATDOESITMATTER |
| KERNS | FALSE INFORMATION |
| KERNS | DEPALMA |
| KERNS | LAWSUITS |
| KERNS | FALSE\_INFORMATION |
| DEPALMA | REPUTATION |
| DEPALMA | DOMESTIC\_VIOLENCE\_SURVIVORS |
| DEPALMA | MENTAL\_ANGUISH |
| DEPALMA | TRADE\_AND\_PROFESSION |
| DEPALMA | DOMESTIC\_ABUSE\_SUPPORT\_COMMUNITY |
| DOMESTIC ABUSE SUPPORT COMMUNITY | INDIVIDUALS |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Case 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Call | phone A call Phone b |  |  |  |  |  |  |  |
| .. |  |  |  |  |  |  |  |  |
| .. |  |  |  |  |  |  |  |  |
| .. |  |  |  |  |  |  |  |  |

How does the accuracy of LLM-based extraction compare to that of different LLMs? Record prompts here and results

Cyber harassment. Two identical, you find difference between two identical evidence.

How can LLMs be used to automate the cross-referencing of digital forensic evidence across multiple legal documents in cyber harassment cases? In other words, are these evidence consistent.