· PII and Regulatory

Compliance

- Sensitive information securely, from the perspective of PII.

 These approaches can be applied to any data that can impact Business compliance.
- Most companies need to implement policies that comply with both CDPR and CCPA, to have burness in Europe and Califonia
- 2 Lakehouse Architecture reduces copies of PII, and finds personal into quickly.
- While Dotabricks support fable ACLS, physically sepenating personal information files and private data into Storage containers, must be done.

Then they can also be guarded by Cloud IAM sellings I configs.

Cached data would not persists after a job completes.

¿Also from demographic views identifiable details such as keys must be removed.

Applying PSEUDONYMISATION and ANONYMIZATION fechniques to datasets reduces the nisk of data exhibition and reduce visibility to most evens of the datasets.

Pseudonymization

- · Switches original data point with pseudonym for later re-identification
- Only authorized users will have access to keys/hash/table for re-identification
- · Protects datasets on record level for machine learning
- · A pseudonym is still considered to be personal data according to the GDPR

| postado/osa | | 3. | |
|-------------------------------|-------------|--|----------|
| | approache | <u>با</u> | |
| | <u></u> | - - | |
| (not the Howing that we mean | | \(| |
| Hashing in onyphograph | | Takeni | ration |
| > Data (like passwords) are | ≥ Storregs | PTI as k | UES. |
| hashed and then stoned | Values | ame shoned | Securely |
| > Salt values ame added to | | | <i>J</i> |
| hash. | ', ≥ Slow J | to write, A | of tw |
| & Salt values eved ane stoned | (read. | | |
| in secured places and am | د) | | |
| accessible to authorised | i i | | |
| users only. | (| | |
| ? Increases size of data. | <u> </u> | | |

| & optionally, some data are | |
|---|---|
| segaregated before howhing | |
| For ex: Street no. I name | |
| can be first separated and | <u>l (</u> |
| then hashed. | <u>}</u> |
| | <u> </u> |
| | |
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| | |
| 3 GDPR 1 CCPA are bo | eller implemented with |
| values. | <u> </u> |
| | |
| In Psedonymisation: | |
| Data is revensibly | altered and original |
| data con be reidention | jed. |
| | |
| In Amonymisation: | |
| Dota is innevensibly | alterned, such that data |
| subjects can no longer | be identified directly |
| Data is innevensibly subjects an no longer or indirectly. | |
| | |
| | |
| Hornymisoton Ap | proaches:- |
| | - |
| | √ <u>√</u> |
| Data Suppression | Cremenalisation |
| Data Suppression | |
| Combinals | Anonymising data by removing specificity. |
| == Exclude column with PIIs | ' removing specificity. |
| 100m 10000 | |

| ≥ Ex!- of data, | @ Removing precision of |
|----------------------------------|---|
| Aggregation by states or | data (calegonical gon.) |
| regions, can be done without | Group small eities |
| individual person names | into larger regions, |
| Leontoux no.s. | into larger regions, |
| | ' |
| >n | & Binning |
| = Remove nous where domog. | o> Age column containing |
| pous are small & indiv- | purhicular aged records, |
| can be identified. | 1 can be convented to |
| | age range (10-20 yrs |
| | |
| | h ranges. |
| | m sounder. |
| | Truncation of IP addresse |
| | phone nois emails |
| | 1 (seen on UPI apps, bomking |
| | (Seen on UPI apps, banking apps a sons by banks.) |
| | |
| | , & Rounding Off. |
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| | |
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| | |
| These steps done irreversible to | on data, becomes |
| irreversible to | identify original. |
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