

TABLE IX: Privacy lexicons.

Category	Lexicon	Assigned Value
username	username, middlename, secondname, newname, truename, aliasname, nick, un-ame, fname, newusername, lastname, firstname, mname, displayname, fullname, accountname, nickname, lname, realname	yes
birthday	birth, birthday, birthyear, dob, birthdate, dateofbirth, dayofbirth, datebirth, constel-lation, birthmonth	yes
	zodiac	no
birthplace	placeofbirth, birthplace	yes
age	age, agemaxage, maxage, agemax, minage, agemin	yes
user image	headpic, profilephoto, userpic, headphoto, profileimage, profilepic, userphoto, head- imgurl, headimage, userimage, userimgs, profilepicture, heading, imglist, avatarurl, avatar, fbphoto, faceimg	no
gender	sexuality, gender, sex, sexid	yes
race	race, racial, ethnicity	yes
language	language, languagevalue	yes
religion	religious, religion, faith, belief	yes
education info	educationschool, educschool, academy, school, university, college, universityname	yes
	educationyear, education, schooltype, educschooltype, educationexperience, educyear, training	no
job info	workstartdate, profession, workexperience, workenddate, jobtitle, occupation, ca- reer, job, work, expertise	yes
	worknumber, employment, workposition, workemploy, employee, employer, certi- fication, certificate	no
company info	workcompany, company, companytitle, organization, organisation, division, office	yes
balance	balance	yes
income	salary, income, videoincome, annualincome, benefit, wage, earnings	yes
debt	debt	no
bank info	bank, banking	yes
marriage	marital, marriage, marry	yes
biometrical data	bloodtype, bmi, bloodpressure, bodytemperature, bodyfat, heartrate	yes
	health, bodymeasurement	no
user preference	favourite, interestedin, hobby, favorite, favorites, interest, wantchild, smoking, drinking, food, diet	yes
	wishlist, favouritcount, favouritecount, preferredcontact, wish, habit	no
body	height, weight, haircolor, eyecolor, bodytype, hairlength	yes
passcode	loginpwd, pwd, password, passwrd, curpassword, loginpassword, lockpin, pin, vpin, oldpassword, passwd, newpassword, passphrase, newpasswordfield, sign- inpass, pass, passcode, userpassword, forgotpassword, resetpassword, userpwd, confirmpassword, pincode	no
phone number	phonenum, phone, mobile, telephone, contactnumber, cell, phonenum, cellnum- ber, phoneno, homephone, smartphones, telephony, phonecode, telephone, bind- phone, cellphone, mobileno, workphone	yes

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mail address	emailaddress, mail, useremail, voicemail, emailid, gmail, email, contactemail, mailbox, memberemail	yes
geo location	locationaddress, longitude, currentlocation, inferredlocation, loc, location, latitude, celllocation, gps, geolocation, lastlocation, geoplace, geoip, geopoint, lon, lng, lat, altitude	yes
ip address	serverip, ipaddress, clientip, ipaddr, ip	yes
license	passport, socialsecuritycode, socialsecuritynumber, license, driverlicense, socialsecurity, ssn, ssc, licensing	yes
device info	imei, androidid, imsi, deviceos, appplatform, devicetype, system, client, phone-brand	yes
	deviceidentifier, bluetoothaddress, deviceuuid, deviceid, screensize, ssid, devicenumber, deviceusage, macaddress, hardwareid, bssid	no
simcard info	sim, simserial, simserialnumber	yes
card info	cardidnumber, cardno, cardnum, cardnumber, cardid, creditcardnumber, creditcard, credit, ccn, cardnumb	yes
	cardmember, cardhold, cardtype, ccv, cardholder, debit	no
user social identifier	amazonid, twitterid, thirdpartyid, socialmediaidentifier, socialidentifier, linenummer, paypal, googleid, fbid, facebookid, facebook, fb, fbuid, twitter, twitterurl, weixin, wechat, qq, icq, whatsapp, amazon, baidu, instagram, microsoft, telegram, tiktok, youtube, linkedin, weibo, googleaccount	yes
user identifier	subscribeid, biometricidentifier, userid, uid, subscriberid, loginid, loginuserid, useruuid, useridx	no
user account	account, accountid, accountnumber, subaccount, accountholder	no
event timestamp	updatetime, expiretime, visittime, createtime, expirestime, expiredtime, regtime, endtime, publishtime, arrivaltime, starttime, invitetime, logintime, lastlogin, lastonline, appstarttimestamp	yes
event date	createdate, updatedate, expiringdate, expiration, expirationday, expire, expirationdate	yes
user address	hometown, town, continent, nationality, nation, country, countryid, countrycode, province, provincecode, cityid, citycode, city, cityname, area, areaid, areacode, userarea, district, region, place, placename, geoname, geocode, locationid	yes
	address, addressid, residential, homeaddress, streetaddress, streetaddr, resident, residence, residency, street, homeaddr, addrdetail, addressstreet, doorcode, house, home	no
zipcode	zip, statezip, zipcode, garagingzip, zipcd, postcode, postalcode	yes
distance	distance, movementdistance	yes
transaction info	pay, billpay, payee, payeeaname, payment, transaction, mobilepay, expense	no
online status	online, onlinestate, userstate, contactstatus	yes
user token	token, apptoken, oauthtoken, logintoken, facebooktoken, fbtokent, devicetoken	no
auth key	appsecret, appkey, secret, authkey, secretkey, clientsecret	no
fingerprint	fingerprint, devicefingerprint	no
timezone	timezone, timezoneid	yes

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Category	Lexicon	Assigned Value
family info	family, familyid	no
app business data	vip, userlevel, level, viplevel, vipgrade, reputation	yes
	membershiptype	no
tax	tax, shippingtax	yes
speed	speed	yes
vehicle	vehicle, carrier	yes
verification code	securitycode, invitecode, invitationcode, validationcode, verifycode	yes
citizen info	citizenship, citizen	no
user experience	experience	no
shopping data	orderno, shopcart	no
relationship	bifollowecount	yes
	friendslist, addressbook, follower, partnership, friendship, followee, contact, relationshipstatus, friend	no
philosophy info	philosophical, philosophy	no
political preference	politics, polotical, political	no
faceprint	faceprint	no
voiceprint	voiceprint	no
sns	snsuser, snsuid, sns	no
app info	appversion, appchannel, applist, installedapps, appid	no
activity record	chatrecord, oftenvisitpositions, visitedplace, interactions, searchqueries, emailhistory, criminalrecord, locationsearch, loginrecord, browsehistory, callrecord	no
shipping	shipping	no
transcript	transcript	no
serial number	serialno, serial	no
advertisement id	adid, advertisingid, advertisingidentity	no