Klonfelrehsternasionalike-otentaria sehi Digital, Wiedladan tekhologi (DAMT) and tan Kontevense Başiani utana Eotinka utana tertikang Tekhik Lismiks, Elekmenik, komputeruan Telekomuhikasi (Nioon) (CON)

# Reskia Aars & siske unduk Birke hamilaninduced Hippetetesisiden of grimakan Mediciteka ta ea Maichin Apperaiolog

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Abstrakt-Pahelitian ioh bentujuan den tuk mengenhitian gkanlel model prediktif panilaiah prisiko hipettahsi aklbat kehamilan sing dengan meloggungkan pendekatan pembelajaran mesior tension Hipertensliyatigrdfinduksi kehamilarimerupakan komplikasinen yadgi berdam bak serius pada ibuphamil dan janini lihi adalah ong tigapenyebab kerhatian tertinggi ti dunia padaswanita hamih cv-[A]I Gaat ihi, penyebab pasti hipertensi akibat kehamilamtidakbe piketahuildāh oleh karenariturti bak dapat dicegah n Detek siedini e dan pengobatad ylang ditetimaldapatanengufangi kepahallanyas dan bahayanya: Deta \$21. publik: Logan (2020) bigunakan dalampenetitiatuini [2]. Kumpulan data tsikütüpµkandan studi kasüse kdntrolspada:83skasus:pge3eklampsja:dan tima kasusleklampsia cli amtarlao352 wa niitā\hamli iyāng melāhirkanli olg turtlah dsakitet, 75 placerant di fNair qui e Kenya. Wenur ut data sed, t 75. pensen 2 vanita en t hartlikit pisehatn Hanyan 25 persenjibu-hamil yangamengalami pine-eklah pistal dan eklampatan care. Dengartidemikiandinirakan menghasilkammadalah klasifikasced vang fidak seimbang ketika salah satudari dua kelast mamilikhe debih bahwak datasdatipadaskelas liainnya: Dengarivdelmikitin, the Shasalaticirkildisetesatkan dengahnteknikhRengar(fbl/bth/Slampekk Minoritasi Sintetis (SMQVE) (Ranilalarprisikoshi perten şicakibat ed kehamilan dilakirkanl padanyjuh gligititma pembelajanan mesinc waitu reigresi logistik (LR), (Kniedrest nsighbord (KNN), pohon), kepultusafi (DJI), (Rulan acaki(RF), rjaringantsarafiperceptnonvork Radahasibpernobaan, Rhi mentilikhakutasi tertinggi achesay at

Katavkunci --Hipertensi yangahiinduksi kenamilan, machine bembelajatan mesinaklabitikasintidak seimbang, minoritas oversintetik atas/teknik pengambilan sampel

# I. Sebagai Rengantario n

Pipertensi yangluuduksi kehamilan merupaken keliopitkasi yang berdampakoseriumpada ibu parojindan jarrim[2]1 Ininsebagiaosbe3ar It terjadiysetelah minggerkebea putuh kehamilank Sefaip kematiany, ada aidikid ikompliklasit betilus resepertii shlasfentari prematun, planjilri pasu, such pempekuan darah yang tidak polomentak ebulaan denberuara atabilo od plantiament dampoendarah productak n Sadi ind no sayebab blastiding in tlipe henisi, a Ribat kehamilah didak diketah su dan prep karena itudidak l hapertucegan is unknown and therefore cannot be prevented. Deteksilclioctiampendobatanovangediterima clapate then guhangiverity

pada tahlon aut dhaite Mykarcbah wat 90 persemibli wami byang o died hieringgal tinggal con pedesado dam diskire[3]. impoverished [3]. BelaihotundipedesaanlThailandf teildaibanklekluanganadoktertalgo of tenalga medisd Akibathya, beberapanostan Sibelah mendirikan proyek agtukcinen betota ostadaliah pendistritousian tayan agentedis keblem of dededaan ngamuschgadalabrinistetad salahterjadi miliansi da statistikhis Thallandpada tahun 20AZ; Devlang Wedlscrsteneshickan fo ahwa arata in Pata Satuhdokterchanus Grerawat fo 1460 pasieroper tahulo (445) u Dengan dencikián nujvan akbiodali bengtitiaicini sadatahount (iki-nien gembahokan mlodelapteolikitichentlajärilnisiko superlensuakibadokeblapilarpredictive menggunakan pendekatan perobetajanan mesirpregjuannya jardalab d bytoknoersdukung olgktendelaimpenilaiangswappasidn, Threpcapaso peraviatanppantperaviatanfoperaulihapatient assessment, treatment

Sisa kestao disus ya pebagai merikutid Pertanla, pengenalan brief singkdudiberikang/Rekerjaho telkatidijetaskandqldmiBabianSection Bagiantilobelisi üthtisainmetodevyangediusulkkan proposed method. Hasiepiercoblacostilinasukkaindalahodagiandotti Akhirnya, Fdatarry, in Bagiann V.kesimpularlubbahasare discussed.

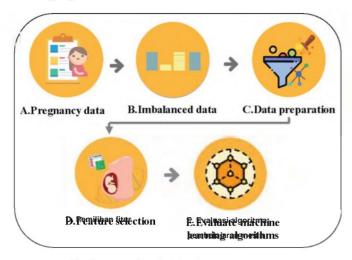
#### III. Rielediaede Workork

(MultiPayer (Muri), concordu kunig maqsilo Mektor (SMM); dan ma(NBayes (NB). Saarin i adaubabarapa soo melitias cyaob, meningun akas machine bembetajaceororesia untuki crierobwardobder phediktik rislikorbipertensi-89,62 persent dibandingkan dengan: allyorithan pengbelajatah mesin lainthya delhamitate separti ektalmasia dengan: allyorithan pengbelajatah mesin lainthya delhamitate separti ektalmasia delhamitate delhamitate separti ektalmasia delhamitate separti ektalmasia delhamitate separti ektalmasia delhamitate della delhamitate della delhamitate delhamitate della delhamitate delhamitate delhamitate delhamitate delhamitate delham Tahirrdkk.:[6] Indengusptkardprediksdristkortingkehoreeklanfpslia prepadanibusharhikselama proges kehamitan menggunakan algoritmacy peocal-methods (NN) dam-deep vearhing (DL) authoritate accident disk (IAh) i darotii limenjadi sembilabemenggunakaospangoptimatad segarohibtian pantikesiDg memberikamakurastipaling tinggDdengan 95:68 bensenst Nikolaides etidli. [7] .mengerobangkäikioldikatordahap awallentilik ped risikoopte-eklagopsiadiDatesefdisuben indenggupakaod:830 kasud he ibutharhilydishogrisyzanglmeslibatka 828 yardabaln Datasachanyacs in blecisii Ki arkaslus iibu 2 hamilridelolgan Theeklangosian Jaringan isaad 116 onsktisslab memberikan basilipakiri diakurat sebesasi 93,8\pensetri-slab Setain liture Tahor let alro (8) dreeh gulasulka osde teksi upneee klasmpisia ideh gah menggunakkan jaringan Tsatraf dibah dingkan opengah talgotit toa tainnya. Dataselaprejsklabijosisi djambiedanil Riumabi Sakiti Uprum Hajith other Slyrabialyan to ddine size Algorit me ija dagaset arafsdalk validasin 1100 Haji Gemberik Moskitasi Salingainggi Indonesia. The neural network kedadanagurdaDatahayanyahaDatandarHordahisasi;kieisehatan(DuHis)(WHO)algorithm and LOO validation provided the most accuracy

ticithal/106/6ppersen. Disconisciphaeteapaet et.a.[9]ppresonticha ticoni pretikte inerphiemphetiorier; annound describing den the convergence ede and tipde emodels. The convergence ede and tipde emodels. The integrate integrat

Belandditiontition threatals overnos exarch muschina Henguing ahas botan insodotatoricate prepiredicitiko preodeklitikatntlikhariske ofi. qulogr diseases. I Kahatilia otrafor et all proposed then Randian remost (RFS) fenyardicting abogsisknehogighakdardaisbdiseasopbyravsing abe databasicafi tampationnaidsakinpitianersangaluktionesaunalas of hospitaliaran arthemilentigena Statemul Then gassemble altearning appuransembangasedata. sakiedahip probilamandrabin viantualianced data9 These sollts from testing the accuracy was 88.79 percent. Betaddittio Patettekaan anadvean jeen heli gusud passed terprodictisin spesteanit fentung avterdissensing The karusadik pening bacah ni augs contristance of Native Baixes Bubyesta(NBN), Since Nini section section captal metallizanthramsason complian questions our diagnosting Jacaun glascas ceranal at the lack used leads to material agest menis a fourther alssasted enting kathanciang mendura di ciaga ble gotte atament costs. Monocoverak Aikjaid bjardoar. Etzpilmel higuis uproposodatlost ike ignoacest ncivelibran akadrima agade generici kaheng thansis open naku jenthoart diseasemakingersam datasetslafroto | Recodsfelly Repositor in & UCI Machine Repartury Repositoral and anodatasetrinean santions Aospitals are Andhora Pundos me Indination en Novas en Energia de la contra N offithe research Kendumps used to calke subbases and destriken pasierpation tranggings kan atgorition algoritikan untok roak gullating the siersalariaies. Hasilpemestiats mstromjedkathatalusingertootinaanetleods togothere geocute et al la fair de la fair d peopeaeds a sipultiday eta peerceptko (il sjerren gunatiwariko (il Maye) to precipted a mendel and the control of the control o faced-forpeand backgroup a gation prourabine the oak valatorital postural Marin Bantsaradisatuk projekga botween form acctocal mand ununinfected individuals. The arassolvible MAT teriffeks relational teriffest and there resumben of utlack are sea are by shown to child that IT-but the clamba sill of the benetlidasensen priedikainobahwasa 80 apat noventik si yeen daktra senturays 82 pdatatn82apetslumppenyakir kens82lppersecntlandspotetrychyu-paru masing-masing 91 persen

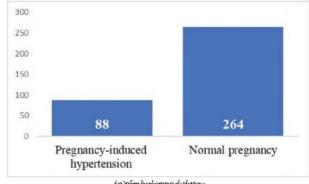
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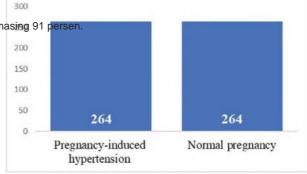
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## Al. Dateekertrannoitaidata

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(a) Dhun bangurutak delihitdang.



(b)) Datacseire blangta.

Bigmbar A Pentapratringan defahidalmabinhang dalamatan dirbahang dalam

# B. Dalandand tiplaked inhang

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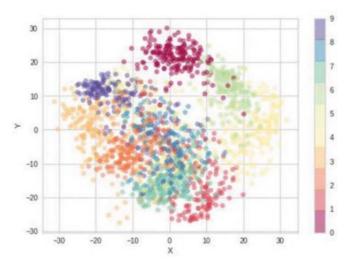
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#### C. Postappredataration

# D. Preilinare it election

Featurans relection for iteraphine desirrating is nebel experimental of thoo sing deatures at learnaria relevant to generally iterated included the name of the operation of the season of the consistence of the constitution of



Eighbar P. Orstoperperperussias grottata weitdar PRCA.

# E. Mengelvatue si atgoritmeal pembiligia adgorithms

Totukvahagtevatuasihilgerlicarpingealtyvorithmsiropathedadataset, thedepperdiktifvelakutededadaasjupetforinnedeontelajavan musirchinte latavihing latgerithms, sylvicarvihee LR, KNN, DT, RF, MLP, SVM, and NB.

Votukstiemeterkitakan kirlerjan angerima fethe en jarah imes le a arlang algo yah prican tehitan perenmahan a den ateisea rebegt dara sephatik the data sendrotak deminaba hancedokta a and belan eed dara jarih to two parten: traianing and testjujign Fortuk is uch kastsidiy, parelitésearcher

toolgambil 7asid 7 rationkoopping 777 percentataelt theudataseat for training randsiding aromatiping jidd. Percentataelt theudataseat of training and a trai

# IW. Hasipersperimental Results

TARBILIHASIR DARIDATA) in galen Dengar Penskeiba Dotana WITH STANDARD SCALER.

Mandainjarkeausing	Felakai Fisselection PCA
K-Thiangest Theeleghbor	64.799
Detois Konul Proe	61.977
Ruind of Forests	70.422
Nerdejdaye is Arapis papisn	71.883
Nai Bayles yes	28.177
Supportung action Matabrines	70.422

Hasingsultsacditilacpscent abeTablogkaflakorasighestogcedatady ratespassed, 80 uppeteantoishound by a the cigardochia od yette remaisok balanged troublock Palgorithm.

TARBILE HASII DAREBATALITISA OF CARRAMINATION DATA WITH MINMAXSCALER.

Nenthinjarlucarming	Felakai Eisselection PCA
K-Telenggst Telelekthor	67.931
Debois Konut Produ	60.566
Ruind of Forests	71.883
र्शित्रोस्त्रीयकृत्व के सिक्ष्मणंड्या क्ष्मणंड्या	71.883
Naif BayBayes	28.177
Steppakting action Metabrines	71.883

Aspshowing in flighted petra frighest inguaracy restorning of 1.83 posteory, shows by difficulting ordered ordered ordered ordered ordered to the ASR Referral LOP in mall RVAA, also rish town.

Hastogsultsacatitibet secan interactional indications in a second of the second of the

Sepshiovang intribatikan Nachteahighesingkan ukroastatoinggisa 80 la 62 pe. 62 entisahodin un jokkaholan dendi nada lataris banki olin ya obca geala to than Regulara thin.

TABELEILIHA SIESDATA MANGITIDAK SEIMBANGADENGANINORMALIZER.

Rembélajalarumesig	Peleksi-Fiselection PCA
K-Tetangga Nerdeklator	73.24
Pehon Kepulpsan	59.15
Huinuchaakorests	67:61
Pendaptron bledapis tapis	71.83
Naif Bayesyes	28.177
MendukungeMesin\Vaktornes	71.83

TABELEV MARIESDATA GALLANGED DENGA DISTANDARDISCALERODISCALERO

Rémbélajalanmésig	Peleksi Fixtection PCA
K-Tetangga Nerdeklatir	72.64
Pehon Kepuljusan	82.08
Huinu Agakorests	89.62
Pendaptron bledapis tapis	45.28
Naif Baylesyes	48.11
MendukuhgeMesinWekhones	78:30)

TABELEV. HASIE BALANCED DATA DENGAN MINMAXSCALER (AXSCALER.

Rémbélajalanmesing	Peleksi-Fisulection PCA
K-Tetangga Nerdeklator	68:87
Pehen Kenujusan	79.25
RulatoAsakorests	85.85
Perceptron berlapis tapis	45.28
Naif Bayesyes	50.00
Mendukung:Mesin Wektones	59.43

Hasilnyasudajsatodilihdu pastaetratiet VT AbrigkaV akulidasi tehning bojst adatah 85,85 tipersens, 8 tipersen

TABBUYI, Habii Data Seimbarg Dengan Normalizered DATA WITH NORMALIZER:

Rembelajalanımenig	Peleksi Fixelection PCA
K-Tetangga Kerdeklator	69.81
Pehon Kepulusan	73.58
Huinu Anakorests	<u>85.85</u>
Phidaptron bedapistapis	45.28
Naif-Bayksyes	48.11
MendukungeMesinWektones	45.28

Sepehoyangiditürijükka V þadhet átighvistingkatrakyrasite was kertinggipadalah 185,85 opense hydituhjukkan datehin oduf lænigr, which biglarispad ahi, tilvan B. ferni gaurki baham algoritma RF.

Mecondipercobadhyang pitakukan dengan dataset, vigbritha RELASENGHASIRE Adasir tehbaik badasahkab cata sein dang cingkate bidasa cehihagi. adatah adasa persanacy rate was 89.62 percent.

# V. Cecheionion

Makajahpor peoperetsehtasikais loeistaisennis iktorlipertensi ncyyang diid duk sekebamitan menggunakah i pendekatan pembelajahan A presinc Datasetpublikologgan (20020) digunakad dalahispenetitianhini In Detaining enabligation and didtalk selicities agape hetitioned akukan the Slybotina SMOTE loade dataset dataset, prosespedy tapan data ation peneltrismenligumakantransformadi dataayang terformadiion, which MinMaxSdaler/StandardScaler damNdrmafizerleintuklrhengkorlversi data repar lebitomengungkap structure of the masalationediksibkoa.dkomakanashtukodengekswaksitigahe three kompopen otampopadatdatanyang titakkiseinobandatanatadahyangced deimbangt Rada pasin perdabaan ulalgo tima RRF ahen cahan kindria ved terbalkejika pibandingkaneden gam algorima spelmbelaja karr mesin hine lainnyan Model prediksistersebut menghasitkan tingkat akucasidangga 89,62 persent yarfqudidasarkan padacdata behirobangis Di masacdepho, behatiic bards tmehefapkan model phediktifepada clasaset kipggehst he vand idilindeksinkehalmitan dhe Ruman: Sakit-Oldanoodaylay pertension Abhaibhulfeinn Prachin Bhaophraya Abhaibhubeihr Hospital, Prachin Buri.

# AKUKUJONGNEDGMENT

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