```
- Optimenton Als
                                                                                                   - Regaliin
 - Validation
                                                                                                                                                 Matthew Tran
                                                                                                      - regression for h
   - training seteman
                                                      - uncentrained - also for f(w)
                                                                                                                                                         C5189
                                                                                                         (1) w.x+& -line
                                                          - smooth if oftwo ent for
   - test setem
   - authors, overfitting
                                                                                                                                                         MII
                                                                                                         (2) phymoial
                                                                                                                                 5(2)= 1+2-7
                                                          - global/ local min/mes
                                                                                                                                                        Lec 1-13
                                                                                                         (1) logithe s(w.x+x)
      - went governell 24
                                                         - Convex of new-above line
                                                                                                                                  1,(3): 2(3)(1-2(3))
   - by perpensation - control Rt
                                                                                                      - loss fo L
     - time w validation sat
                                                                                                         (A) (2-7)2 - squal
- Supervices learner - classification, requision
                                                          - Sankfols
                                                            - gradut descar (monartha)
                                                                                                         (B) 12-71 - chs
                                                                                                         (C) -4 ps - (1-4) pu(1-5) 12 days the por/ com or god
- unsupervised learning - clustering, dimensional to
                                                            - nations entited -
                                                             - montiser enjoyale godine
- Class Fredien - sample of observations wil freduces
                                                                                                      - (a) + 2 L(h(d),y) - maco
                                                          - mark - BFGS
                                   predictor
   - magrest Mighlors
                                                          - line search - whinte in 10
   - K-neorest are gintors
                                                                                                         (4) max " L(k(k), y) - max
                                                          appearate g(ar) = 0
                                                                                                         (1) Em T(MI) - milling to
                                                       - Constraine &
   - decision burdony
  - decision/predictor/descrimet finchin
                                                                                                         (1) " + Allull la pendrai/ngularet
                                                                                                                                                      LOANTHULLE
       - Pantosec, pancon una ha
                                                          -1P - w & min c. w
                                                                                                                                                    109. MP - dec back
polyot
pulsed for
                                                                                                          (1) " + Allwill li
   - linear class for - Horapland popular
                                                                  shit Augb
   - inner product == dot product; linear!
                                                                                                       - least squared linear ag 1 x A + a
                                                              - fear-like region - punemply it have
                                                                                                           - full-ten man Hall = Tx.x le
                                                              - optimen - active motivato
                                                                                                              w= (XTX)-1 XTY
       - C23 0 : A.7 / HAII HAM
                                                                        " Entley-enter, in the
   - H= {x: w.x:- a} hypoplone flite. x M
                                                                                                            - for producentrial, publications
                                                                                                                                                      c s(1-s)
                                                              - alg-simples, interrepoint
       - wish to all Houses
                                                          - ap (cm) = wTQw + cTw
                                                                                                                                            OT JOX TOX
       - w. x + a = > 5:5000 d: show : [! | |
                                                                                                        - Inguhansara 3+ C+ a
                                                                                                            - 0w J : - XT(Y - S(Xw))
                                                                     Awib
       -linewhy smooth = phone exists
                                                              - Q 11 PSO ( to be onvex)
                                                                                                            - Newton Mother - GD bit smother step
                                                              - of s soun, smo, contraducted
  - Centro: d Method
     - Mc of all office in c, MA No In C
                                                                                                                - PIJ(w) = Hessian
                                                                                                                    w = w + - (015(w)) 05(w)
      . F(x) = (uc-ux).x - (Mc-Mx). Mc+M
                                                     - Decision Than == Risk min
                                                                                    confil w/ multivar
                                                         - X sample, Yeler
                                                                         c pris-
                                                                                  P(a16,c) = P(a,b,c)
                                                                                                                 - med gulstob
                                                           P(YIX): P(XIY) P(Y)
                                 المتول الم
                 normal
                                                                                                               - ROL cure (Recenseporting chosentriche)
      - good for Garssian
                                                                                                                                       I s.iu as
                                                                                                                  - rok file po ve fre pos
  - Perceptron Algorithm
                                                           priker pols
                                                         - 131 holon companding folic 123, pos diff (arryn)
      - slow, be correct for lin sep
                                                                                                                                             tol MI-3
                                                                                        al pass 4.1. ho p(YIX)
       - use gradient descent
                                                           - 0-1 loss for 15 Rymorting
                                                                                                                                          specificals, for my
                                                         - lat r be decompted, definish
                                                            K(2) = E[T(2(X) A)] = E(1) 6(X=X)
       - 1.50 C, -1.5 mb
                                                                                                                  - emprecal dubation - dispate or w/ somple
       - unby origin H
                                                                                                                  - imprestruk - film = & LLLAi),7:)
       - End w so X, wyo is in C
                                                         - Boyer decision wel/clausermin R(r) - Boyer nik
                                                                                                                             - Bla Versea Decompeter
         - aka YIX-wZo constraint
                                                             - bancolly, pick eles longer polosion prob
                                                                                                                                 - bear - ever from bot mote)
       - 1 = 1 ter T(5'A!) = ( - 41.5 cm
                                                          - POF FLO S. & FLOTA=1
                                                                                                                                 - various - emon form roll
                                                                 GCKU : J. = x FC7 Lx
                                                                                                                                   E(reco)-o(r) Nor(rec) Nor(e)
                                                                  62 - E((x-m)2) = E(x2)-M2
       - 1:16 hac R(w) = 1 &L(x:w,y)
                                                                                                            - ILX-MIL
      - optimetra pas - find w min R(w)
                                                                                                                                                 Y ON COM
                                                        - Garrier Discomes Analysis
                                                            - oll clay for (con) = X = N(A, 02): F(4): (1/22 6) 1 €
                                                                                                            -1(x-M) E(x-M)
                                                                                                                                - Ridge Regresh (T. Icham)
      - X- spen w. 215, X
                                                                                                                                  -locally low of applical, preside small limit
       - W- 1 pack W , X . Z 20
                                                                                                           e pa
                                                                               X ~ N(M, E) : F(A) + ((2A) the E continu
       - DR(W) = - Z Y:X:
                                                                                                                                    - unque sola PD
         - we was EDR(w) such o(nd)
                                                             - Bayes and Go(x) = In (((\overline{\text{La}}) \def f_c(x) \pi_c)
                                                                                                                                  - IFAFLE
                                                                                                                                  - XTX+AI PPO!
                                                                                     elim por pase
         - shehabe - pick one
                                                                                                                                C-balacins och of A
      - all ficking dimension fulfits" [1]
                                                                                                      . I dal but for
      - online alg - can breen while running
                                                                 - prehandel, power Kot but fit p mak(p)
                                                              - 6604 MLE
      - Conversed Through - OCPYTE) Its, TE mostin
                                                                                                                               -MAP (maimm a posterio)
                                                                 - dL = 0 , chedi dp 40
   - Maximum Mogen Classifier (SVM) (hard mogen)
                                                                 - Gener L( . ) : R(K) (K) ... (K) = = 1 & X.
                                                                                                                                  - IrA + 2 % - man sports
      - 7: (w. 1: +0) 2 ( ) magin | 1 mil 3: + 1 mil 3 11 mil
                                                                  - con also men log litalitad
                                                                                                  3 - To Elemi
                                                                                                                                0 x (4.2)= (Qxy) 2 + (Qx2)4
      - Fred with, menimon limit?
                                                                                                                                GRAY = (SNA) YT+ X DAY
                                                               - E:gonedor.
                                                                - Avedy, jubscalar, Akenku
         - quantitopes deldin, or contraints
                                                                 · Special decoy and symm A: VAVT
                                                                                                                                oxtense (oxx) (oxten)
                                                                                         "squard" and gife
  - Soft Marin SVM
                                                                     - genel A: asa-1
                                                                                                                                  BE CYW = BRYWICT
     - hard sum - falliful lin sep, had and sublen
                                                                 - yma PO XTAX 70
                                                                                                                                  DA AX AT OXX = I
      - all state versibles E: 30
                                                                         PSO XTAX 20
         - 41(X: - + x) ] 1 - E;
                                                                                    Cools langing
                                                                  Zo. To E(X:-Mc)(A:-A) carbolicon
          - margn = VIIII
                                                             - QDA
      - ald but her
                                                                  min 11 w112 + C & E:
                                                                 - mos queles dutient for
       a soull C - man Yards, underfit, I muster, wee flat
       - hig C - imposited D, overfit, but where, since w
                                                                 one & : TEE (A-ma)(XI-A) T for all
      - nulinear?
         - male anlinear feature! I hyprocom?
                                                                  Qch) · McTE'X - LMCTE Mc + In Te
          - er. ald [[x]]
         - qualitie - higher dim concention
                                                                           W.X
          - Now? Kenebeahun
                                                             - rotparfect he shill estimating, date un parfect Consin
          - else who father method?
                                                             - X sort mid ( = ) == Lenso mirax
  - whiten data - means o saturation to (0, I)
                                                              sylving W : X Va(R) 1/2
                ver= 1 daty std
                                                                          -4
```

```
- Kentl breh
                                                                                                                                                                                                                                                                                                                                      Matthew Tran
    - Feature Subsect Selection
                                                                                                          - ou p-tim w/s ocall) feature?
        - ellingery various, put all 4 bigs

- strong various, put all 4 bigs

- sisted - less over felting, infrance (wisdom)
                                                                                                                                                                                                     - tad feering - ment loken
                                                                                                                                                                                                                                                                                                                                                C5189
                                                                                                                                                                                                       - i dea - overparemetrich, va files, mak, bornel
                                                                                                                - p(x) - x lifted bp dim
        - Best - try off 2 - 1 subats , close het, v. show
                                                                                                                - usually say be product of o(x)
                                                                                                                                                                                                                                                                                                                                                Final
                                                                                                            - Kernel Ridge Regardon d
- w: XTa + sphrae a ladd of w
                                                                                                                                                                                                 - Unsupervised Learning
        - Henrike 1 - Forward stepmin reliation
                                                                                                                                                                                                        -no lobels | find structure in date
               - est base feature until val. loss decreases
- O(d) 1 de each iter
                                                                                                               - cert X at y at all X; 41= ]
                                                                                                                                                                                                            - But k directors that capture mist vanishing
                                                                                                                                                                                                        - PCA
                                                                                                                   (XTX+AI) W= XXTY
         - Harris 2 - backward skywn schotun
                                                                                                                                                                                                            - bely on dim nedux
              - remove then that improve ust lation
                                                                                                                                                                                                            - assure X control , o raten
                                                                                                                    (XXT+XI) 4=Y
              - init old , oc d2), obstanisher
                                                                                                                                                                                                                    X : X-m ww painx
                                                                                                               - 4 15001 - 4 TXZ = 2 4: XITZ
                                                                                                               - alidal
        - Add Henry - MM. 4 sail original features
                                                                                                                                                                                                              - XIX sque, Man, PID, Lad
                                                                                                                - K(X, z) = XTz u kend for
              - ver of libra of 6 "(17x)"
                                                                                                                - K = XXT 11 level matrick
                                                                                                                                                                                                                   - 0 1 1 ... 1 mil
              - 25001 Z: = 41 ): 101/19ml
                                                                                                                   sh (KI)I)azy fra
                                                                                                                                                                                                                          vi ... vi vat essi-
                    mmun omail
                                                                                                                      h(e) = £; 11 q; h(x, 2)
                                                                                                                                                                                                               - MLE beiv!
    - Decision Tres
                                                                                                                                                                                                               -dow't mor stayle vos over
                                                                                                               - polysoni konal k(x, z)=(xTz+1)
                                                                                                          - Keinelization
        - montinent classification / regestion
                                                                                                                   - Him like it = p(x) f(x) all moments
                                                                                                                                                                                                               - Ime 3 - min projector
         - mds 3 - bresh as wouldy I father
                                                                                                                                                                                                               - es. eigenfect), much neighbor
               leaf - chis
                                                                                                          - Kernel Peceptrer
                                                                                                                    ws & Y. Q(X) Howdon the ho
                                                                                                                                                                                                                - XTX Am O(h 12), in ecert sym
         - Reparto alli
                                                                                                                - where yet (x) to (0: 11 minder it !?
                                                                                                                                                                                                                - SVD X = UDVT - [ ] = $ 5: 4: 41
                - restagato all!
- got for cotenial, quattofac
- interpretable real (astron)
                                                                                                                     me w + EyiA(xi)
                                                                                                                                                                                                                         ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) ( 1 ) 
                 - arbitry bombon
                                                                                                                   h(2) & w. b(2)
           - training - classifich - greety bewrite
                                                                                                                - dale we KX) Ta
                                                                                                                - at rul
                                                                                                                                                                                                                        - v: is eigenstor of XTX of everal 8;2
                      - recurred - puts bat father + threshold
                                                                                                                       Kije k(xi,xj)
                  - pide har havel (score dos)

- the where (score (score dos)

- this I(s) or I(sp) > I(se)

- T(s) promo extent
                                                                                                                                                                                                                             XTX: VOLVT
                                                                                                                       when yo (Ka) co
                                                                                                                                                                                                                  - 0(n1k) -- a- 0(n1hgk)
                                                                                                                            9: 4 9: + 64:
                                                                                                                                                                                                                                                          eque la min with di
                              - PCYTC) . PC
                                                                                                                        here (;; ajt(Xj.Z)
                                                                                                                                                                                                             - clustering
                                                                                                                                                                                                                     min Est | |Xj - And Est | |Xj 
                                                                                                                                                                                                                  - Konew aka Word
                              - supre + -1792 Pc
                                                                                                           - Kernel Logatic Regnesion
                                                                                                                (estal Loganic Kasausian

- stead a ((Ka);)) station:

- 4; 6 9; +6(Y; -5((Ka);)) station:
                             - etg 4(5) = - Epc 1.9= Pc
                                                                                                                - stead a
                            but at such to east alon a worth
                                                                                                                 - arare(y-s(Ka)) both
                            Hope Ist Heer Heer)
                                                                                                                                                                                                                   - O(nk") - all parlate No hard
                                                  15x1+15+1
                                                                                                                     h(z)= 5( = 0; k(x), 2))
                           infigure Her-Hefter 100)
                                                                                                                                                                                                                   - K-mego hernitu
                      - p(1-p) do works, concave got
                                                                                                                                                                                                                          - up to pai ] offe. he
                                                                                                          - Geren Kernel
- Roman Science your street you be clause, and company of the depth.) It being, ad your of the depth.)
                                                                                                                  -infinite dimentool!
                                                                                                                 - k(x, z) = - 112-2112
                                                                                                                                                                                                                         - fot in produce
                                                                                                                  - means of similarly.
                                                                                                                                                                                                                    - 60-57
                                                                                                                  - 617 phehodosuppe a niper
          - Molhvemle Tree
                 - mon-am of-grant polity L
- was blee sure, logate regression, GOA
                                                                                                                                                                                                                     - Rado
                                                                                                                     16 + This Lucion
                                                                                                                                                                                                                    - on mathyle hones is helder
                                                                                                                                                                                                                     - k meastt
                                                                                                          - Newel Nehoski
                                                                                                               - need notice for 3 can b and in Ap
                                                                                                                                                                                                                   - K-mebil dillows
                                                                                                                                                                                                                      - artifrey distress fire, solution totages
           - Regression
                - piecewic contrat
- T(5)= (5) = (4:-14)
                                                                                                                -training
                                                                                                                                                                                  andly water
                                                                                                                                                                                                                        - ex. li, los, matro
                                                                                                                      -560 - 660
                                                                                                                      - put low fire L(Z,Y)
           - Shapping Early
- Lord dall : space
                                                                                                                       - p. Las J(h): 1 £11, L(h(x1), y1)
                                                                                                                                                                                                                   - Hierarheol chaterons
                                                                                                                                                                                                                       - bottomy/agghantus - Rucpair)
                 - limit 1826
- reduce august
                                                                                                                       - usually put copies = I scalarin
                                                                                                                                                                                                                         - by dust daine - And split
                 - and a mortage of which = better to prefer
                                                                                                                       -random weight - to all never diff
                                                                                                                                                                                                                         - need dish for clusters
                                                                                                                            - all at to bis be frage of the
              Shoping Cudehu
                - whereth extrept suppresent
                                                                                                                                                                                                                                                     O(n1) nam
                                                                                                                                                                                                                              - Could
                                                                                                                        - backpropasotion
                                                                                                                                                                                                                                                     0602) 66
                                                                                                                             - gradial west , to ex and uplate
                                                                                                                                                                            SCIN eti
                 - met pinti conclus
                                                                                                                                                                                                                              - 41491
                  - Re samue points
                                                                                                                     - regress- linear strat
                                                                                                                                                                                                                          - dadagren - voud her last
                                                                                                                                                                                                                              - cerbant
                                                                                                                      - dempoder - 1623, entrope 166 0
                 - Hay alladge
                 - high diples, roke of formery posib
                                                                                                                                                                                                                                - cut of Kaschalos
                 - worldeton - bur to mbe & then prime
                                                                                                                       - regressive to best - July "Hech"
                                                                                                                                                                                                                    - Speatral Graph Clustering
                                                                                                                                                                                                                          - ne-stated, wetweehol, no self case
                                                                                                                             - inteladroba mades & Your fair
                 - if - llyle pail
                       - majorite, probl, or awage
                                                                                                                             terset to 0.18 ero. 18, not o ( for clas)
                                                                                                                                                                                                                          - ada wasto ox removes
                                                                                                                                                                                                                          - cut sigh be min about weather
                - greatly remain solits that imprine well-defrom
                                                                                                                              - all C 20.4 to 51 - put real budging
                 - doct not only hora, just see what pto go when
                                                                                                                                                                                                                          - got be man agmostin
                - hable be bed spick wally fillhand by good split
                                                                                                                              - com entropy has invoke a caput
                                                                                                                                                                                                                           - look at mo
                                                                                                                                       T(14)1 - Eigi A: pu(1)
                                                                                                                                                                                                                    - High-to- (Autra)
                                                                                                                                                                                                                        - word on this dell fin wegen
          - decision have - high various, con how how head
     - Ensemble Learning
                                                                                                                                                                                                                        - K-men, says for for hubby
                                                                                                                              - la azduedo
                                                                                                                              - Paku, not signed - entertos sortados ( en bartos, les)
                                                                                                                                                                                                                         - 60 mmg 1 40.0
                  - age there:
- age there:
- age there:
- majority or morse goods!
            - are- see Hern!
                                                                                                                                                                                                                        - rada prison
                                                                                                                        - heurstico (more)
                                                                                                                                                                                                                           - hard, but sim beter
                    - I som break , he got various a bisson of bisso
                                                                                                                               - person receive, center, state
                                                                                                                               - use tank and stages I for he ton
                                                                                                                                                                                                                     - Ada Boot
                         - overhilling to Trailmed
                                                                                                                               - diff bear is to per lover (lover for eight)
                                                                                                                                                                                                                         - milyte home of weight of
                                                                                                                                                                                                                           - d. CC week och leone
                                                                                                                              - emphorary - worth rate or miles
                                                                                                                                                                                                                            -inprove weath of michaeld
                - rubin stylengle und replacement
            - Bossins
                - Juma points how he phase were shift with Theories
                                                                                                                               - 2 darder - Menderis, rane good on fee
                                                                                                                                                                                                                           - meracorte - spogowish
                                                                                                                                                                                                                                                         caspali e-pl
                                                                                                                               - RHSport, Alon Misterel
                 - midecine - entently honor)
                                                                                                                                                                                                                                 24 - 13, 1(H(X), Y:) M(X): € B, (4(X))
                                                                                                                              -minahin - we witow
                                                                                                                                                         ALLE - POTCO) + PALL
            - Random Facts
                - we base of might split mecon
                                                                                                                                                                                                                             - Acrola
                                                                                                                                        - may wellake
                 - only split on m fachel
                                                                                                                                                                                                                             - מיון אווחסק
                                                                                                                                                                                                                             - 1.10 what stubber
                                                                                                                                -ensemble
                       To Frelow 2/3 to regression
                                                                                                                               - doport - duble rentom navious exhitor
                                                                                                                                                                                                                                                                                     alge exhapter - makey
                                                                                                                              - 1. 45
                 - les ordans metial
                                                                                                                                                                                                                             -ronlowe beer
                                                                                                                                                                                                                        - Neathorth chahah
                                                                                                                                                                                                                               - nomito e (20-0)
                                                                                                                                 - 16.14
                                                                                                                                                                                                                                                                                                  varani-
                                                                                                                                                                                                                                           2 mm 211-202
                                                                                                                                                                                                                                                                                                   kd has -
                                                                                                                                                                                                                         1, 40kg kup o Baphand
```