

|   | Date / /   |
|---|--|
| * | GIM (Creneralized linear models)   |
|   |  |
|   | · statistical framework that extends traditional linear regession.  . handle broader data range & distributions.   |
|   | . handle bloader auth lange of distributions   |
|   | The stands of the stands of  |
|   | Three components -> probablish distribution, a linkfunct of linear product of response variable binear product of influence expected value of influence expense coefficient. |
|   | variety of response variable Vinear predictor  |
|   | expected value of began  |
|   | and I agistic reasersion by being entrance. reparse coefficient.   |
|   |  |
|   | Deviance measures how well on LM fits data & models.  Therpetabolity or wall or Versatality > epidemiology finance, etc.   |
|   | afected value  |
|   | . Interpretability order oversatality - epidemiology finance, etc  |
|   |  |
|   |  |
| X | Logistic Regulstion -  |
| 1 | H MOX Whelihood Whenship in cogistic Reposition  |
|   | · supervised ML.   |
|   | e predict probablity thank an instance of belonging to class.  o predict categorical dependent variable  very No 0, 1 True of JUST   |
|   | e predict probability that an instance of beauty yours   |
|   | o predic cargorical approximation  |
|   | . We find S-curve  |
|   | o we find sturned when method is used for defination of accul  |
|   | , wax. Likelyood estimation method is used for estimation of accord  |
|   | Sal of En MOUNTAIN   |
|   | A MAN A DESCRIPTION OF CONSTRUCTION OF MANN  |
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|      | DOM5 Page No.  |   |
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|      | Date / /   | 1 |
| h    | odds -> ratio of somewant happening to some event net happening  | 1 |
| T    | ours - non of someway raggery  |   |
|      | event net vappening  |   |
|      | odd a la a la al a la al a a coup  |   |
|      | obas natio - odas of event occurry in one grant  | 1 |
| 0 74 | odds natio > odds of event occurring in one group to adds in amount group  | / |
|      | a la   | 1 |
|      | change - predictor variable affects adds of + reouter  |   |
|      |  |   |
| -44  |  |   |
|      | odds > Ratio > 1 -> no effect -> on entrons  |   |
|      | >1 >1 > tre outcomes   |   |
|      | odds > Ratio > 1 > no effect > on entrons  > 1 > +ve outcomes  > < 1 > less likely 2   |   |
|      |  |   |
|      | felps in feature selection, model evaluation, etc.   |   |
|      |  |   |
|      |  |   |
|      | Legistic Andrickery  |   |
| 1    | Max. Likelihood Estimation in Logistic Regression in simple & a  |   |
|      | in simple & c  |   |
|      | finals trade   |   |
|      | best fitting line (mode), feedicts binary outen  |   |
|      | the filling are for seed to be and the   |   |
|      | fina coefficients on pleasest variables  |   |
|      | log willy nood - simplifies calculation -  |   |
| ,    | find coefficients for predictor variables  log likelihood - simplifies calculation -  aptimization -> gradient descent   |   |
| 1    | The last of the la |   |
| . 9  | et of model garameter > max. likelihood fud"   |   |
|      | Mirelihood - 0 to 1.   |   |
|      | mar probablity of observed data.   |   |
| -    |  | - |

|   | Date / /   |
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| A | Polssion reglession  |
| A |  |
|   | , regression mode -> response variables -formal counts of not fractional numbers   |
|   | toutional numbers  |
|   | book standard about the look of the standard o |
|   | · analy ze count clata.  |
|   | annuels alustrus - , that tockels can predict + somen of eve   |
|   | · rate estimation.   |
|   | well clent suprosent multiplove others on late.  |
|   | remark valiance of court is earn to near   |
|   | assumes variance of cont is eged to near-<br>to model count of predict class-rates.  |
|   | TO THOUSE SOME OF THE STATE OF  |
|   |  |
| h | Autorothing of P - 30 days and sent the  |
| X | Interpretting de - +ve -+ve outone.  |
|   | · coefficient sign & Magnifude:  · coefficient sign & Coefficient sig |
|   | add of a day and a day high  |
|   | con al' com a lost' (on value)   |
|   | , Significance Jest (p-vall according)   |
|   | Meall got (overell good -)   |
|   | · Dementi - responsibilité loige datases   |
| h | Total and the state of the stat |
| A | Visualizing Fiffing LR Curve   |
| I | 10 1 10 1 1 10 1 10 1 10 1 10 1 10 1 1   |
|   | predicted probabilities.   |
|   | e plat the course  |
|   | Interpretation used in predictor variance  |
|   | Interpretation - chag in predicted valable values - uncertaints in predicted probability   |
|   | " mutiple Preditos -   |
|   |  |
|   | the state of the s |
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