**Summary**

Call:

glm(formula = knowledge\_level ~ `Parent’s age (years)` + `Parent’s sex` +

`Parent’s education level` + `Employment status` + `Family type` +

`Your average household income per month (BDT)` + `Child’s sex` +

`Child’s age (years)` + `Number of children`, family = binomial(link = "logit"),

data = data)

Coefficients:

Estimate

(Intercept) 1.259307

`Parent’s age (years)`> 45 1.761586

`Parent’s age (years)`25–35 1.595884

`Parent’s age (years)`36–45 1.852729

`Parent’s sex`Male -0.152726

`Parent’s education level`Primary -1.873997

`Parent’s education level`Secondary -0.847954

`Parent’s education level`Undergraduate -0.268536

`Employment status`Not employed -0.519037

`Employment status`Self employed 0.640895

`Family type`Nuclear family -0.008479

`Family type`Single parent family -0.187416

`Your average household income per month (BDT)`Low (less than 30000 BDT) -0.709408

`Your average household income per month (BDT)`Middle (less than 50000 BDT) -0.337706

`Child’s sex`Male 0.049187

`Child’s age (years)`> 10 -1.126436

`Child’s age (years)`5–9 -1.027243

`Number of children`1 -0.115497

`Number of children`2 -0.063637

Std. Error

(Intercept) 0.936650

`Parent’s age (years)`> 45 0.815683

`Parent’s age (years)`25–35 0.715148

`Parent’s age (years)`36–45 0.731872

`Parent’s sex`Male 0.369691

`Parent’s education level`Primary 0.431399

`Parent’s education level`Secondary 0.222913

`Parent’s education level`Undergraduate 0.294093

`Employment status`Not employed 0.368368

`Employment status`Self employed 0.354264

`Family type`Nuclear family 0.221025

`Family type`Single parent family 0.252669

`Your average household income per month (BDT)`Low (less than 30000 BDT) 0.273017

`Your average household income per month (BDT)`Middle (less than 50000 BDT) 0.234699

`Child’s sex`Male 0.170038

`Child’s age (years)`> 10 0.496339

`Child’s age (years)`5–9 0.487320

`Number of children`1 0.291501

`Number of children`2 0.244016

z value

(Intercept) 1.344

`Parent’s age (years)`> 45 2.160

`Parent’s age (years)`25–35 2.232

`Parent’s age (years)`36–45 2.531

`Parent’s sex`Male -0.413

`Parent’s education level`Primary -4.344

`Parent’s education level`Secondary -3.804

`Parent’s education level`Undergraduate -0.913

`Employment status`Not employed -1.409

`Employment status`Self employed 1.809

`Family type`Nuclear family -0.038

`Family type`Single parent family -0.742

`Your average household income per month (BDT)`Low (less than 30000 BDT) -2.598

`Your average household income per month (BDT)`Middle (less than 50000 BDT) -1.439

`Child’s sex`Male 0.289

`Child’s age (years)`> 10 -2.269

`Child’s age (years)`5–9 -2.108

`Number of children`1 -0.396

`Number of children`2 -0.261

Pr(>|z|)

(Intercept) 0.178793

`Parent’s age (years)`> 45 0.030800 \*

`Parent’s age (years)`25–35 0.025645 \*

`Parent’s age (years)`36–45 0.011358 \*

`Parent’s sex`Male 0.679521

`Parent’s education level`Primary 1.4e-05 \*\*\*

`Parent’s education level`Secondary 0.000142 \*\*\*

`Parent’s education level`Undergraduate 0.361191

`Employment status`Not employed 0.158830

`Employment status`Self employed 0.070437 .

`Family type`Nuclear family 0.969398

`Family type`Single parent family 0.458240

`Your average household income per month (BDT)`Low (less than 30000 BDT) 0.009366 \*\*

`Your average household income per month (BDT)`Middle (less than 50000 BDT) 0.150182

`Child’s sex`Male 0.772374

`Child’s age (years)`> 10 0.023239 \*

`Child’s age (years)`5–9 0.035036 \*

`Number of children`1 0.691946

`Number of children`2 0.794255

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 934.51 on 702 degrees of freedom

Residual deviance: 839.86 on 684 degrees of freedom

(1 observation deleted due to missingness)

AIC: 877.86

**report(glm\_model)**

We fitted a logistic model (estimated using ML) to predict knowledge\_level with Parent’s

age (years), Parent’s sex, Parent’s education level, Employment status, Family type, Your

average household income per month (BDT), Child’s sex, Child’s age (years) and Number of

children (formula: knowledge\_level ~ `Parent’s age (years)` + `Parent’s sex` + `Parent’s

education level` + `Employment status` + `Family type` + `Your average household income

per month (BDT)` + `Child’s sex` + `Child’s age (years)` + `Number of children`). The

model's explanatory power is weak (Tjur's R2 = 0.13). The model's intercept,

corresponding to Parent’s age (years) = < 25, Parent’s sex = Female, Parent’s education

level = Postgraduate, Employment status = Employed, Family type = Extended family, Your

average household income per month (BDT) = High (greater than 50000 BDT), Child’s sex =

Female, Child’s age (years) = < 5 and Number of children = >= 3, is at 1.26 (95% CI

[-0.67, 3.07], p = 0.179). Within this model:

- The effect of Parent’s age (years) [> 45] is statistically significant and positive

(beta = 1.76, 95% CI [0.24, 3.51], p = 0.031; Std. beta = 1.76, 95% CI [0.24, 3.51])

- The effect of Parent’s age (years) [25–35] is statistically significant and positive

(beta = 1.60, 95% CI [0.30, 3.18], p = 0.026; Std. beta = 1.60, 95% CI [0.30, 3.18])

- The effect of Parent’s age (years) [36–45] is statistically significant and positive

(beta = 1.85, 95% CI [0.52, 3.47], p = 0.011; Std. beta = 1.85, 95% CI [0.52, 3.47])

- The effect of Parent’s sex [Male] is statistically non-significant and negative (beta =

-0.15, 95% CI [-0.90, 0.56], p = 0.680; Std. beta = -0.15, 95% CI [-0.90, 0.56])

- The effect of Parent’s education level [Primary] is statistically significant and

negative (beta = -1.87, 95% CI [-2.75, -1.05], p < .001; Std. beta = -1.87, 95% CI

[-2.75, -1.05])

- The effect of Parent’s education level [Secondary] is statistically significant and

negative (beta = -0.85, 95% CI [-1.29, -0.42], p < .001; Std. beta = -0.85, 95% CI

[-1.29, -0.42])

- The effect of Parent’s education level [Undergraduate] is statistically non-significant

and negative (beta = -0.27, 95% CI [-0.84, 0.31], p = 0.361; Std. beta = -0.27, 95% CI

[-0.84, 0.31])

- The effect of Employment status [Not employed] is statistically non-significant and

negative (beta = -0.52, 95% CI [-1.26, 0.19], p = 0.159; Std. beta = -0.52, 95% CI

[-1.26, 0.19])

- The effect of Employment status [Self employed] is statistically non-significant and

positive (beta = 0.64, 95% CI [-0.05, 1.34], p = 0.070; Std. beta = 0.64, 95% CI [-0.05,

1.34])

- The effect of Family type [Nuclear family] is statistically non-significant and

negative (beta = -8.48e-03, 95% CI [-0.44, 0.42], p = 0.969; Std. beta = -8.48e-03, 95%

CI [-0.44, 0.42])

- The effect of Family type [Single parent family] is statistically non-significant and

negative (beta = -0.19, 95% CI [-0.68, 0.31], p = 0.458; Std. beta = -0.19, 95% CI

[-0.68, 0.31])

- The effect of Your average household income per month (BDT) [Low (less than 30000 BDT)]

is statistically significant and negative (beta = -0.71, 95% CI [-1.25, -0.18], p =

0.009; Std. beta = -0.71, 95% CI [-1.25, -0.18])

- The effect of Your average household income per month (BDT) [Middle (less than 50000

BDT)] is statistically non-significant and negative (beta = -0.34, 95% CI [-0.81, 0.12],

p = 0.150; Std. beta = -0.34, 95% CI [-0.81, 0.12])

- The effect of Child’s sex [Male] is statistically non-significant and positive (beta =

0.05, 95% CI [-0.28, 0.38], p = 0.772; Std. beta = 0.05, 95% CI [-0.28, 0.38])

- The effect of Child’s age (years) [> 10] is statistically significant and negative

(beta = -1.13, 95% CI [-2.18, -0.21], p = 0.023; Std. beta = -1.13, 95% CI [-2.18,

-0.21])

- The effect of Child’s age (years) [5–9] is statistically significant and negative (beta

= -1.03, 95% CI [-2.07, -0.13], p = 0.035; Std. beta = -1.03, 95% CI [-2.07, -0.13])

- The effect of Number of children [1] is statistically non-significant and negative

(beta = -0.12, 95% CI [-0.69, 0.45], p = 0.692; Std. beta = -0.12, 95% CI [-0.69, 0.45])

- The effect of Number of children [2] is statistically non-significant and negative

(beta = -0.06, 95% CI [-0.55, 0.41], p = 0.794; Std. beta = -0.06, 95% CI [-0.55, 0.41])

Standardized parameters were obtained by fitting the model on a standardized version of

the dataset. 95% Confidence Intervals (CIs) and p-values were computed using a Wald

z-distribution approximation.