Student\_ID Student\_Age Sex High\_School\_Type Scholarship \

0 STUDENT1 0 0 0 0

1 STUDENT2 0 0 0 0

2 STUDENT3 0 0 1 0

3 STUDENT4 1 1 2 0

4 STUDENT5 0 0 2 0

.. ... ... ... ... ...

140 STUDENT141 0 1 1 0

141 STUDENT142 1 1 1 1

142 STUDENT143 1 1 2 1

143 STUDENT144 0 1 1 1

144 STUDENT145 1 1 2 2

Additional\_Work Sports\_activity Transportation Weekly\_Study\_Hours \

0 0 0 0 0

1 0 0 0 0

2 1 0 0 2

3 0 0 1 2

4 1 0 1 12

.. ... ... ... ...

140 0 1 0 0

141 1 0 0 0

142 1 0 0 0

143 0 1 1 12

144 1 0 0 12

Attendance Reading Notes Listening\_in\_Class Project\_work Grade

0 0 0 0 0 0 0

1 0 0 1 1 1 0

2 1 1 1 0 1 0

3 0 1 0 0 0 0

4 0 0 1 1 1 0

.. ... ... ... ... ... ...

140 0 1 0 0 1 2

141 1 1 0 1 0 2

142 0 0 1 0 0 0

143 2 1 0 0 1 5

144 0 0 1 1 0 4

[145 rows x 15 columns]

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

R-Square for demographics: -0.16802696403988615

Structural Path Coefficients:

[[-0.27482083 0.01911016]]

Mean Squared Error for demographics: 5.608196053261666

MAE for demographics: 1.9921587618647356

Bootstrap Orig Estimate: [[-0.79089846]

[-0.79089846]

[-2.79089846]

[ 1.28703128]

[-2.81643491]

[-2.79089846]

[ 1.93204448]

[ 4.28703128]

[ 3.98311738]

[-1.01688262]

[ 0.20910154]

[ 1.7251121 ]

[ 0.18356509]

[ 2.20910154]

[ 4.20910154]

[-1.01688262]

[-1.86750781]

[ 1.20910154]

[ 4.15802864]

[ 3.33810418]

[ 4.20910154]

[ 0.15802864]

[ 0.6740392 ]

[-0.79089846]

[ 1.20910154]

[ 1.7251121 ]

[ 2.20910154]

[ 2.33810418]

[-1.79089846]]

Bootstrap Mean: 0.854825194506711

Bootstrap Confidence Interval: [-0.40091897 -0.05549782]

Direct Effects Coefficients:

[[-0.27482083 0.01911016]]

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

R-Square for background: -0.13750001656612243

Structural Path Coefficients:

[[ 0.41941046 -0.09383605 -0.18233505]]

Mean Squared Error for background: 5.461623147317482

MAE for background: 1.898680087712133

Bootstrap Orig Estimate: [[-0.1730788 ]

[-0.94121741]

[-2.36380467]

[ 0.86805671]

[-2.94121741]

[-2.94121741]

[ 1.39197113]

[ 4.8269212 ]

[ 2.70146244]

[-1.53039894]

[ 0.46960106]

[ 0.86805671]

[ 0.05878259]

[ 2.63619533]

[ 3.86805671]

[-1.00648452]

[-1.77462314]

[ 1.99351548]

[ 4.22537686]

[ 3.22537686]

[ 4.46960106]

[-0.13194329]

[ 0.05878259]

[-0.53039894]

[ 0.70146244]

[ 1.63619533]

[ 2.46960106]

[ 2.46960106]

[-1.77462314]]

Bootstrap Mean: 0.7872278943604119

Bootstrap Confidence Interval: [-0.37930731 -0.02267644]

Direct Effects Coefficients:

[[ 0.41941046 -0.09383605 -0.18233505]]

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

R-Square for career\_transition: -0.20302689623646675

Structural Path Coefficients:

[[0.19002303 0.37042788]]

Mean Squared Error for career\_transition: 5.7762456682554735

MAE for career\_transition: 1.9902129751569926

Bootstrap Orig Estimate: [[-0.52405436]

[-0.81134106]

[-2.13559253]

[ 1.47594564]

[-3.19980289]

[-3.19980289]

[ 1.18865894]

[ 3.80019711]

[ 3.86440747]

[-1.52405436]

[ 0.47594564]

[ 1.86440747]

[-0.19980289]

[ 2.18865894]

[ 4.47594564]

[-1.13559253]

[-1.13559253]

[ 1.47594564]

[ 4.47594564]

[ 3.47594564]

[ 4.47594564]

[ 0.18865894]

[ 0.18865894]

[-0.52405436]

[ 1.86440747]

[ 1.47594564]

[ 2.18865894]

[ 1.80019711]

[-2.19980289]]

Bootstrap Mean: 0.8398270049233224

Bootstrap Confidence Interval: [-0.44978272 -0.06672149]

Direct Effects Coefficients:

[[0.19002303 0.37042788]]

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

R-Square for job\_search\_pref: 0.9979227877392199

Structural Path Coefficients:

[[ 2.44038188 -0.10762848]]

Mean Squared Error for job\_search\_pref: 0.009973582769357782

MAE for job\_search\_pref: 0.0995014928759832

Bootstrap Orig Estimate: [[ 0.09280937]

[-0.12079983]

[-0.16380056]

[ 0.1358101 ]

[-0.16380056]

[-0.16380056]

[-0.07779909]

[-0.01329799]

[-0.03479836]

[ 0.071309 ]

[ 0.11430973]

[-0.07779909]

[ 0.11430973]

[-0.05629873]

[-0.01329799]

[-0.14230019]

[-0.14230019]

[-0.07779909]

[-0.01329799]

[ 0.17881084]

[ 0.2003112 ]

[ 0.11430973]

[-0.09929946]

[ 0.09280937]

[-0.07779909]

[ 0.1358101 ]

[-0.05629873]

[-0.05629873]

[ 0.071309 ]]

Bootstrap Mean: -0.007895795496032608

Bootstrap Confidence Interval: [0.94653743 0.99999119]

Direct Effects Coefficients:

[[ 2.44038188 -0.10762848]]

Outer loadings: [[ 0.99710071]

[-0.08777979]]

A graph of a number of points

Description automatically generated with medium confidence

PLS-SEM analysis completed!

In [ ]:

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