

# Optimizing Career Paths: A Decision Tree Approach

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# Background

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Vyshu an undergraduate is standing at a critical juncture after her third year of a Bachelor of Commerce (Honors). She needs to decide-

1. whether to pursue higher education.
2. to enter the job market directly.

This decision is crucial due to its significant implications for her future career trajectory, potential earnings and personal fulfillment.



# Decisions To Make

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Higher Education or Job in India



India or Abroad



USA or Canada or UK





# Objectives

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Optimize Salary



Best Job Market



Enhance Quality of Life





# Uncertainties

MBA or MS



Job or No Job



Loan or Personal Funds

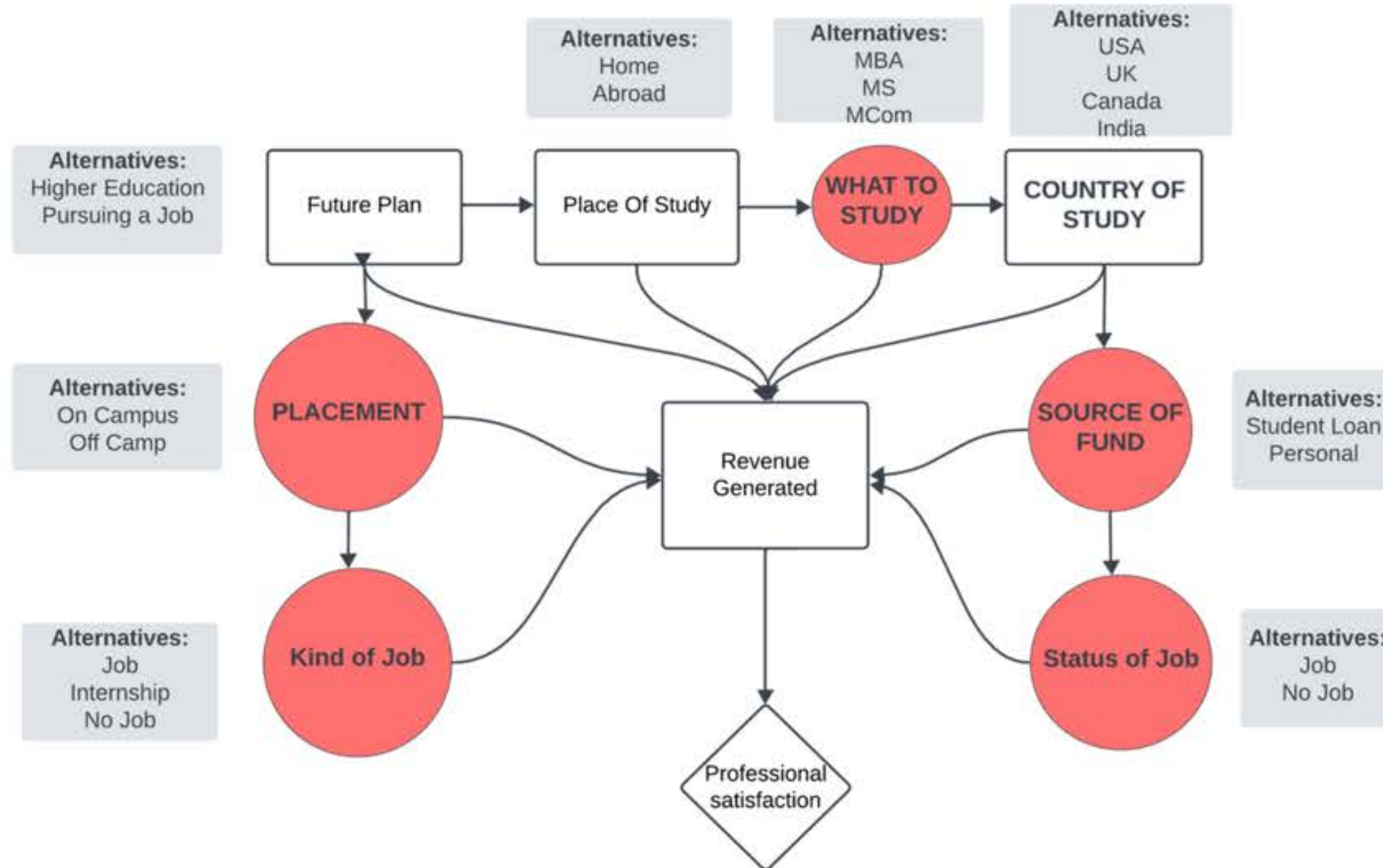




# Data and Probabilities

	Value	Source
ates choose to study in INDIA	25.00%	<a href="https://www.careerindia.com/study-abroad/indian-students-studying-abroad-latest-data-available-034395.html">https://www.careerindia.com/study-abroad/indian-students-studying-abroad-latest-data-available-034395.html</a>
ates choose to study in ABROAD	75.00%	
ates choose to study MBA in INDIA	56.00%	<a href="https://aishe.gov.in/aishe/viewDocument.action?documentId=353">https://aishe.gov.in/aishe/viewDocument.action?documentId=353</a>
ates choose to study Mcom in INDIA	44.00%	
ates choose to study MBA in ABROAD	68.00%	<a href="https://yourpediaglobal.com/us-universities-with-the-most-indian-students/">https://yourpediaglobal.com/us-universities-with-the-most-indian-students/</a> <a href="https://www.newindianexpress.com/nation/2023/mar/30/over-75-lakhindians-opted-to-study-abroad-in-2022-us-canada-uk-preferred-pick">https://www.newindianexpress.com/nation/2023/mar/30/over-75-lakhindians-opted-to-study-abroad-in-2022-us-canada-uk-preferred-pick</a>
ates choose to study MS in ABROAD	32.00%	
ates choose to study in USA	59.00%	<a href="https://www.newindianexpress.com/nation/2023/Mar/30/over-75-lakhindians-opted-to-study-abroad-in-2022-us-canada-uk-preferred-pick">https://www.newindianexpress.com/nation/2023/Mar/30/over-75-lakhindians-opted-to-study-abroad-in-2022-us-canada-uk-preferred-pick</a>
ates choose to study in UK	17.00%	
ates choose to study in CANADA	24.00%	
ates choose to study with STUDENT LOAN	28.00%	
ates choose to study with PERSONAL FUNDS	72.00%	
r students getting a job in INDIA	48.71%	<a href="https://www.globaldata.com/data-insights/macroeconomic/employment-rate-in-india-2137608/">https://www.globaldata.com/data-insights/macroeconomic/employment-rate-in-india-2137608/</a>
r students not getting a job in INDIA	51.29%	
r students getting a job in USA	73.00%	<a href="https://wenr.wes.org/2017/10/career-expectations-experiences-and-outcomes-of-u-s-educated-international-students-what-we-lea">https://wenr.wes.org/2017/10/career-expectations-experiences-and-outcomes-of-u-s-educated-international-students-what-we-lea</a>
r students not getting a job in USA	27.00%	
r students getting a job in UK	82.00%	<a href="https://www.universitiesuk.ac.uk/latest/insights-and-analysis/what-did-graduates-do-after-higher">https://www.universitiesuk.ac.uk/latest/insights-and-analysis/what-did-graduates-do-after-higher</a>
r students not getting a job in UK	18.00%	
r students getting a job in CANADA	94.30%	<a href="https://www.services.labour.gov.on.ca/labourmarket-ui/jobProfile?nocCode=22222">https://www.services.labour.gov.on.ca/labourmarket-ui/jobProfile?nocCode=22222</a>
r students not getting a job in CANADA	5.70%	
ate students getting a job in INDIA	60.10%	<a href="https://www.pib.gov.in/PressReleaselframePage.aspx?PRID=1908966">https://www.pib.gov.in/PressReleaselframePage.aspx?PRID=1908966</a>
ate Student getting a an intership in INDIA	25.00%	
ate studentsnot getting a job in INDIA	14.90%	<a href="https://www.myshortlister.com/insights/internship-statistics">https://www.myshortlister.com/insights/internship-statistics</a>

# Influence Diagram



# Best and Worst Outcomes

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	<b>Job Market</b>	<b>Quality of Life</b>	<b>Salary</b>
Best Outcome	Canada	Abroad	MBA
Worst Outcome	India	India	No Job



# Swing

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	Job Market	Quality of life	Salary
Swing Job Market	Canada	India	No job
Swing Quality of life	India	Abroad	No job
Swing Salary	India	India	MBA

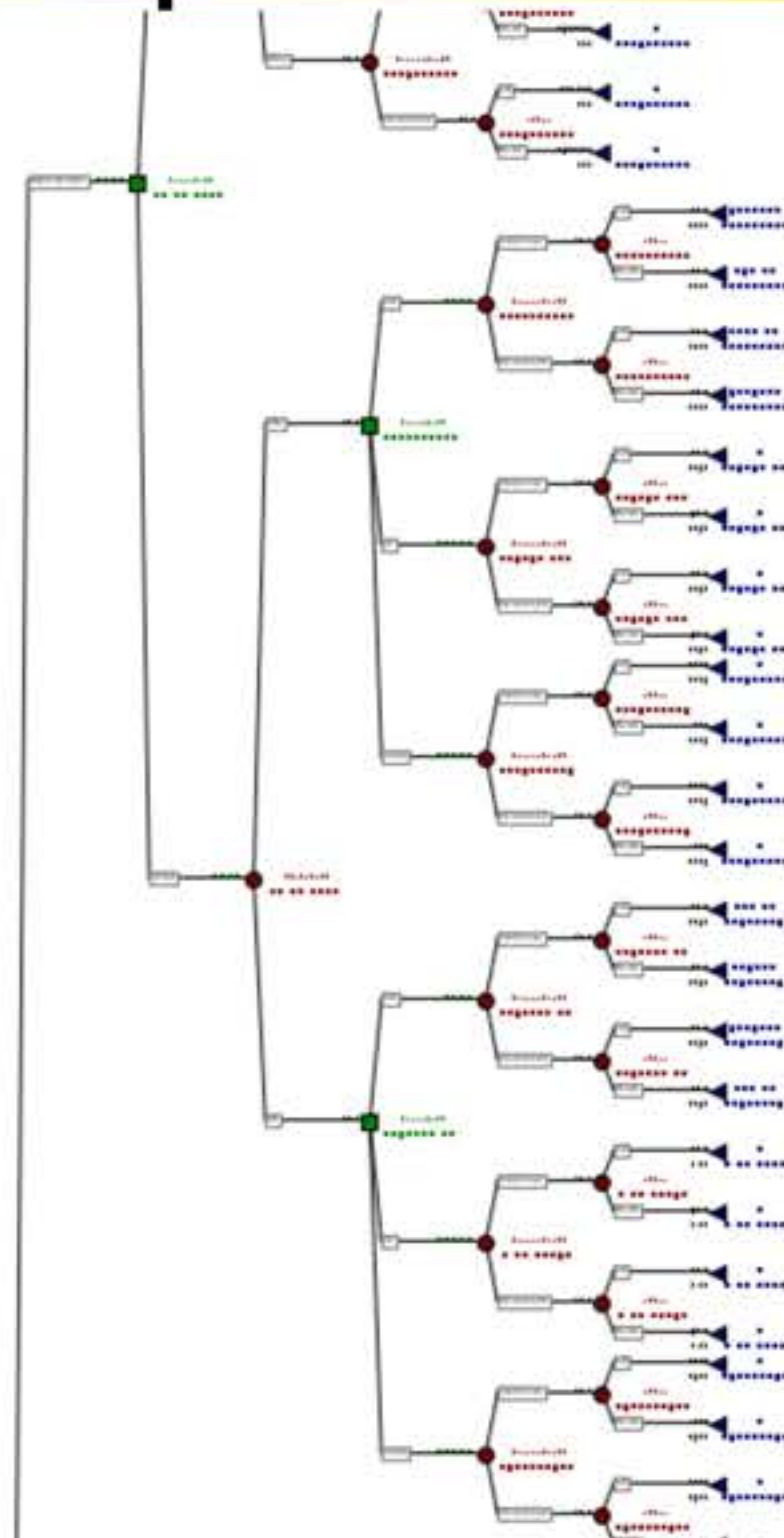
# Satisfaction and Weights

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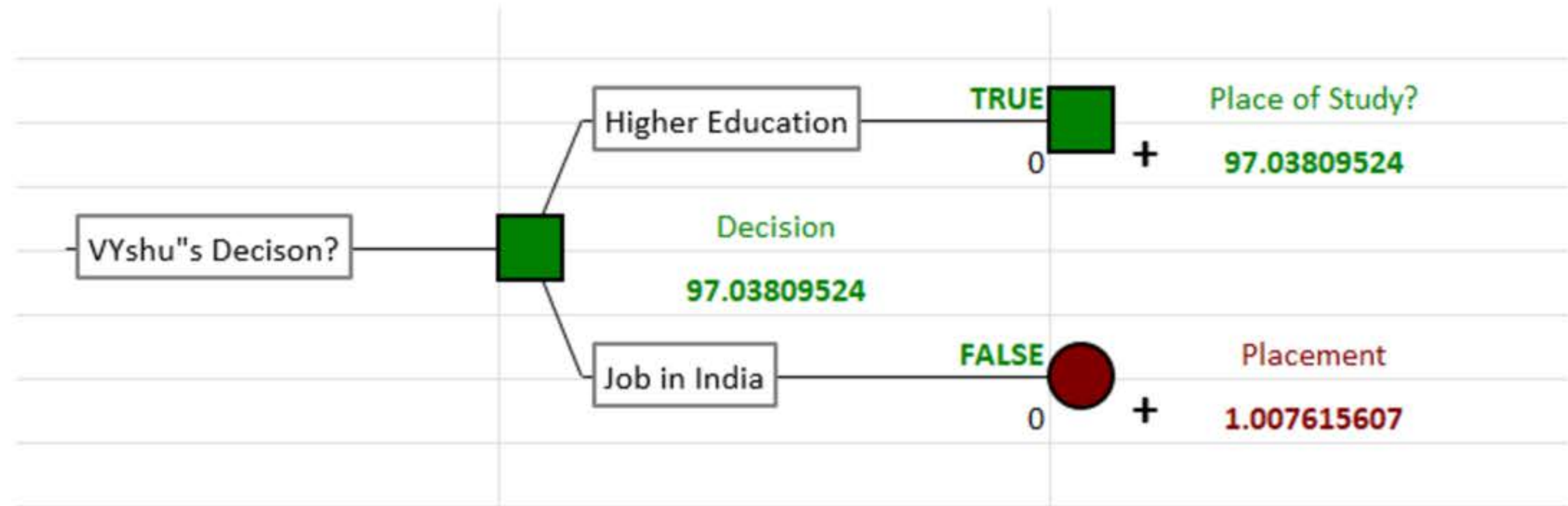
	Satisfaction	Weights
Job Market	85	0.34
Quality of life	65	0.26
Salary	100	0.4



# Decision Tree -Glimpse

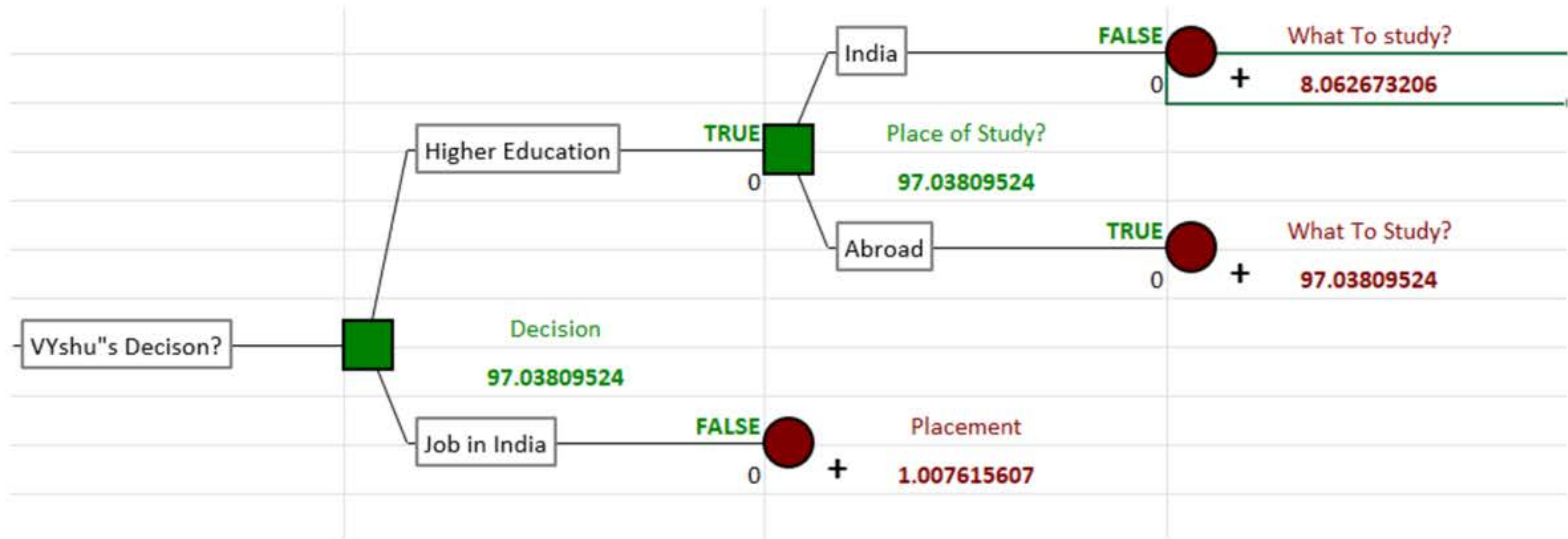


# Higher Education vs Job in India

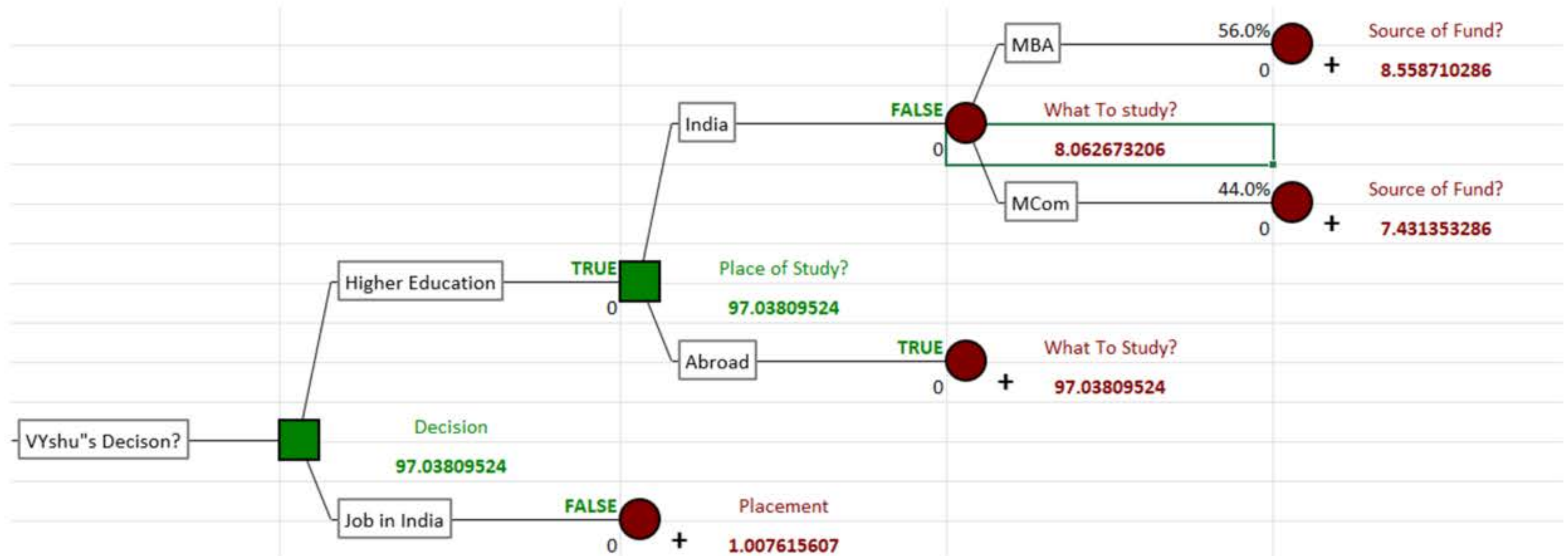




# Higher Education- India Vs Abroad

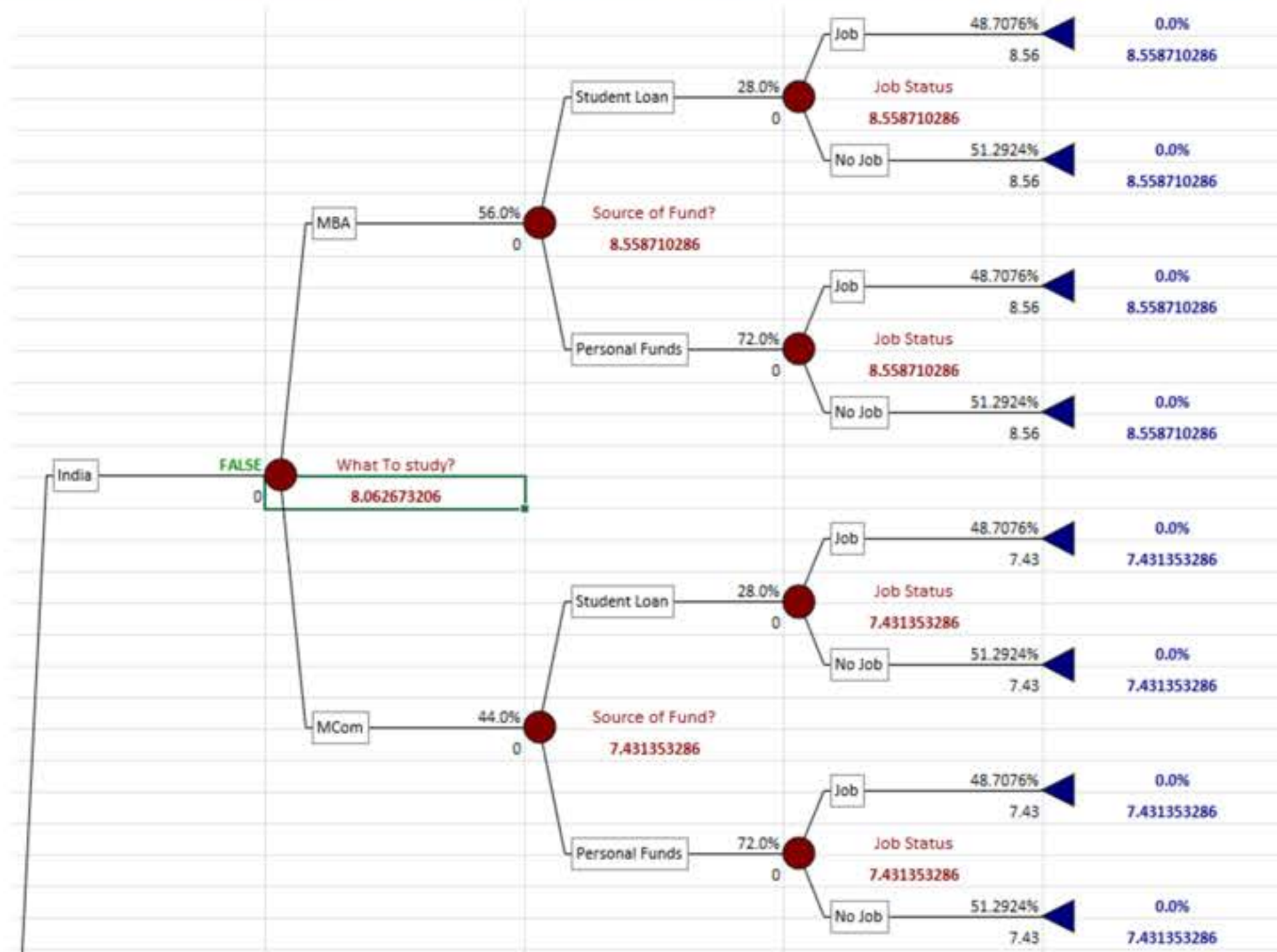


# Higher Education- India - MBA Vs MCom

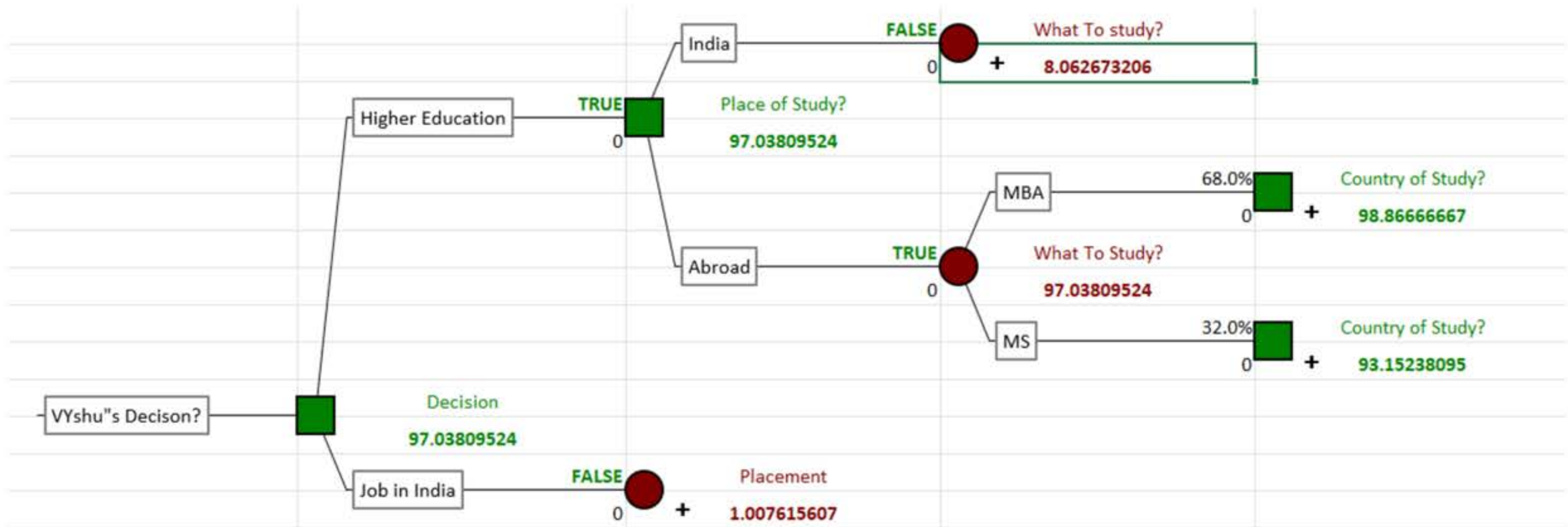




# Higher Education- India - MBA Vs M.Com-Funds-Job Status

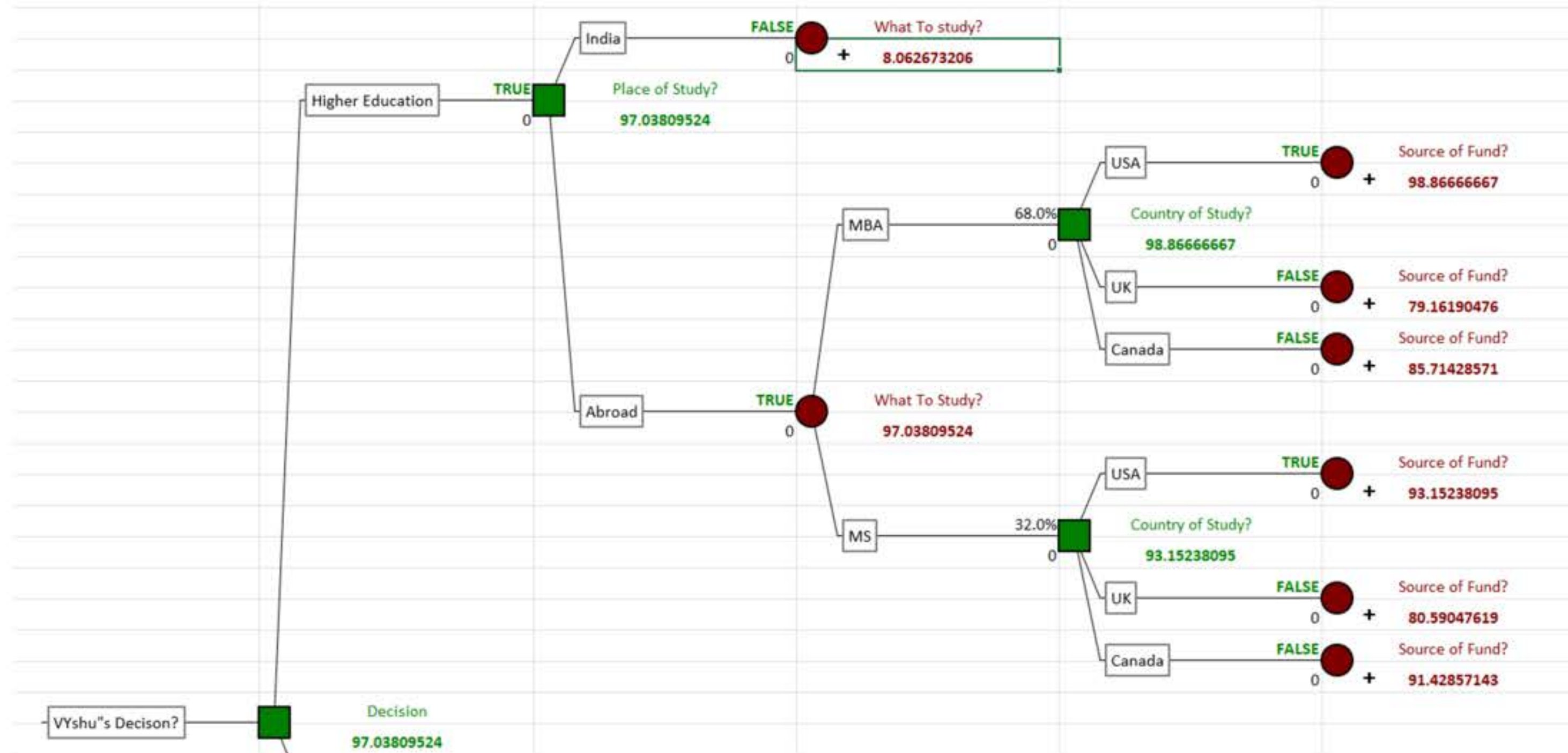


# Higher Education- Abroad

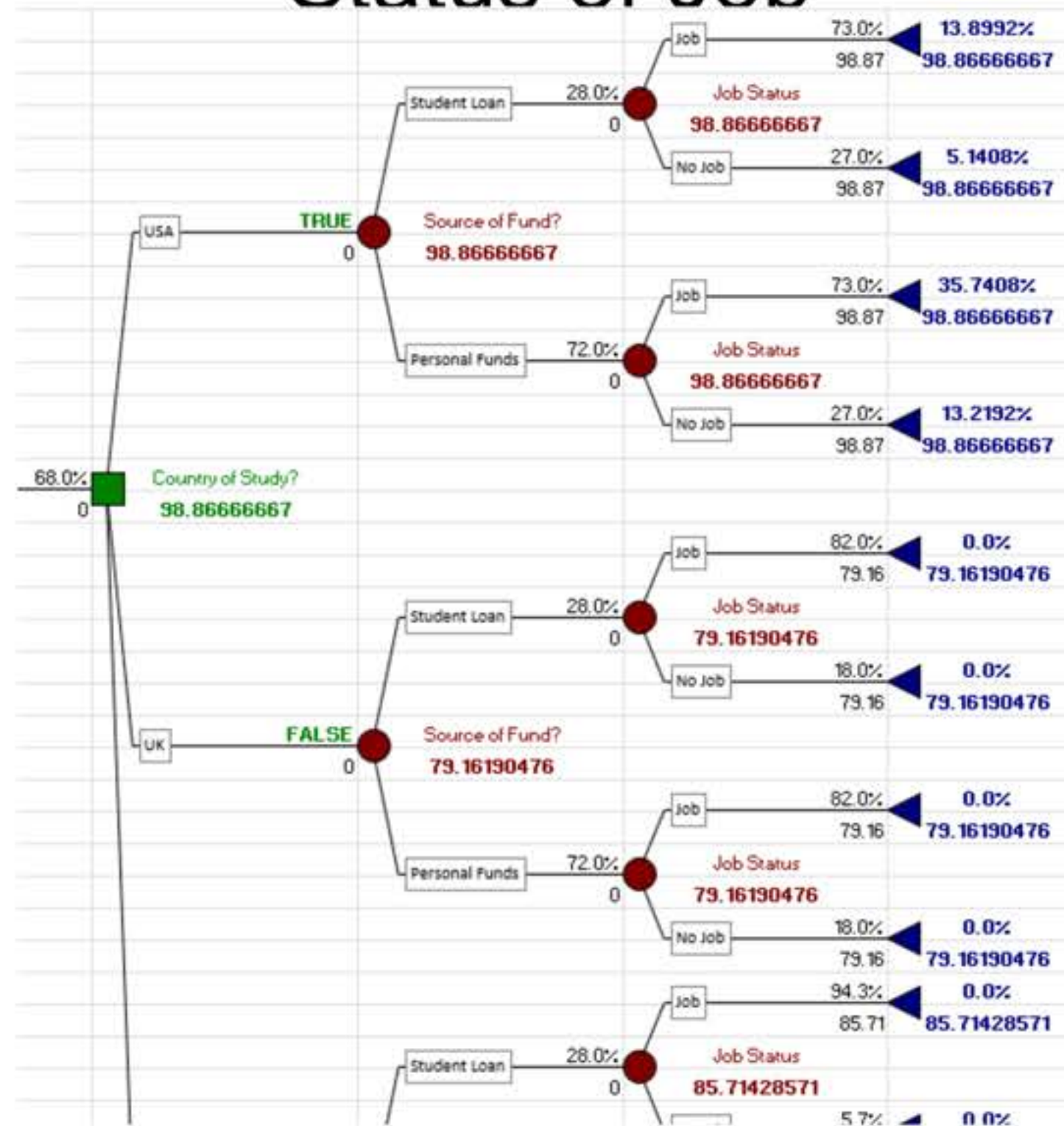




# Higher Education- Abroad-Country of Study

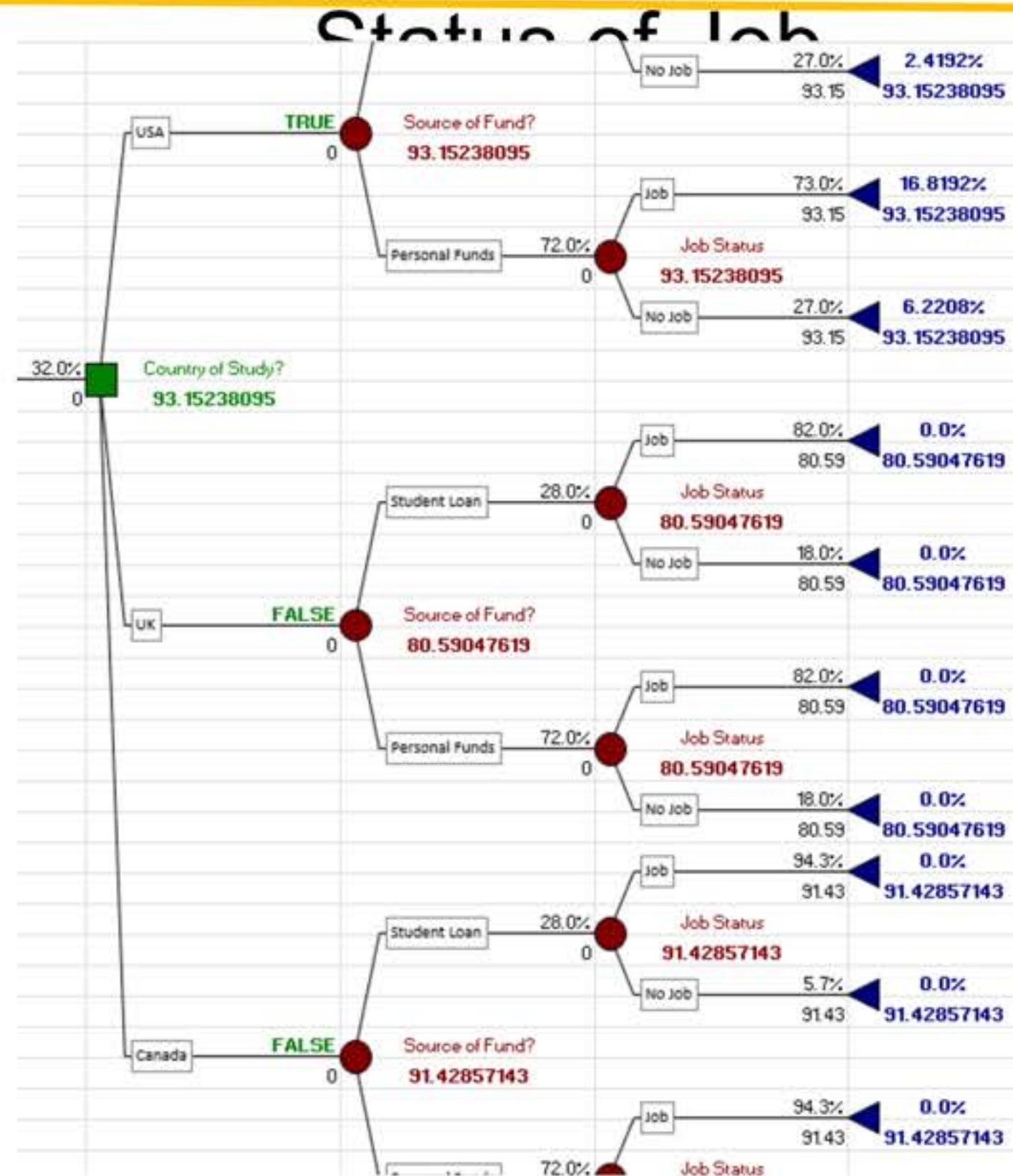


# Higher Education- Abroad-Country of Study-Funds - Status of Job

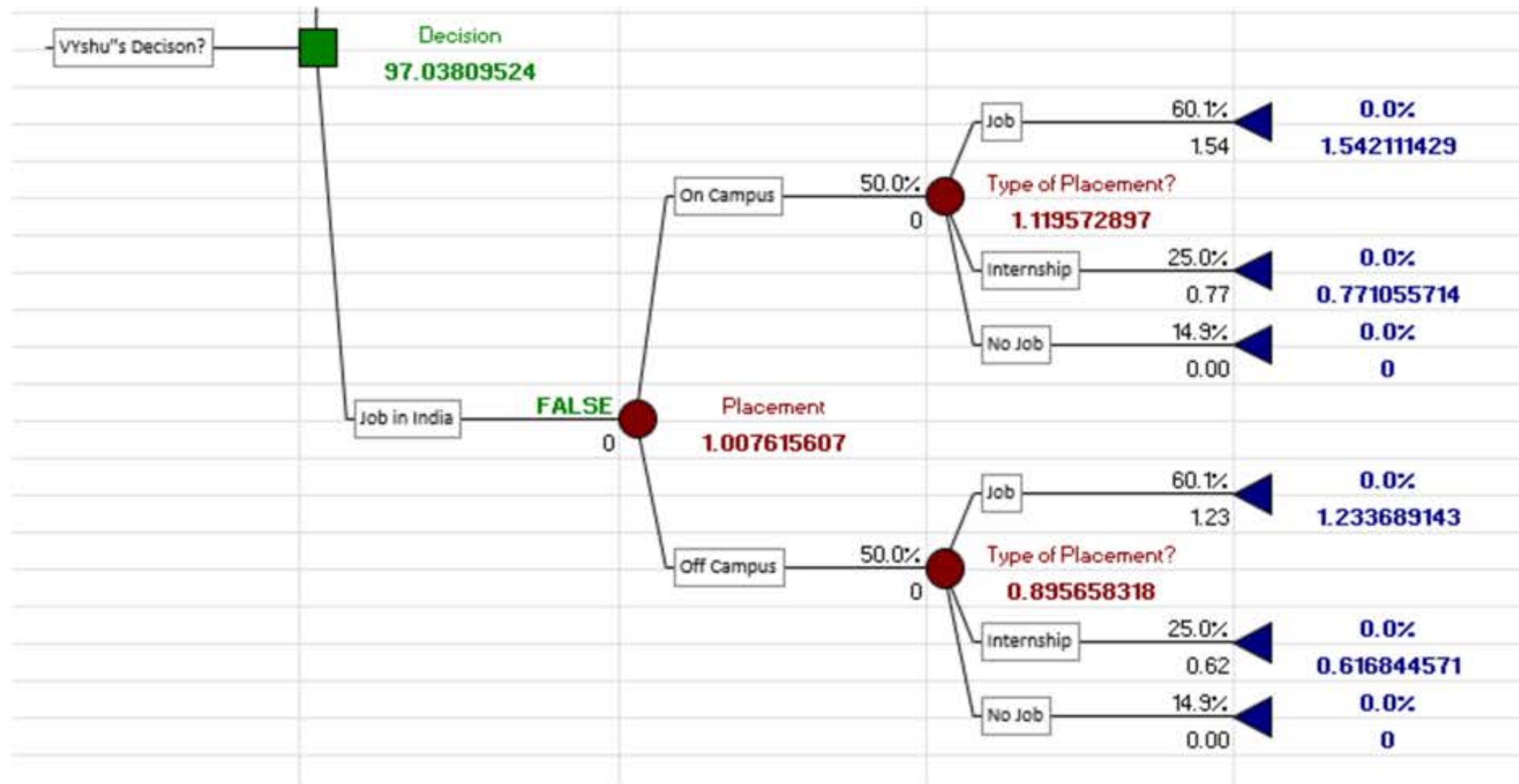




# Higher Education- Abroad-Country of Study-Funds -

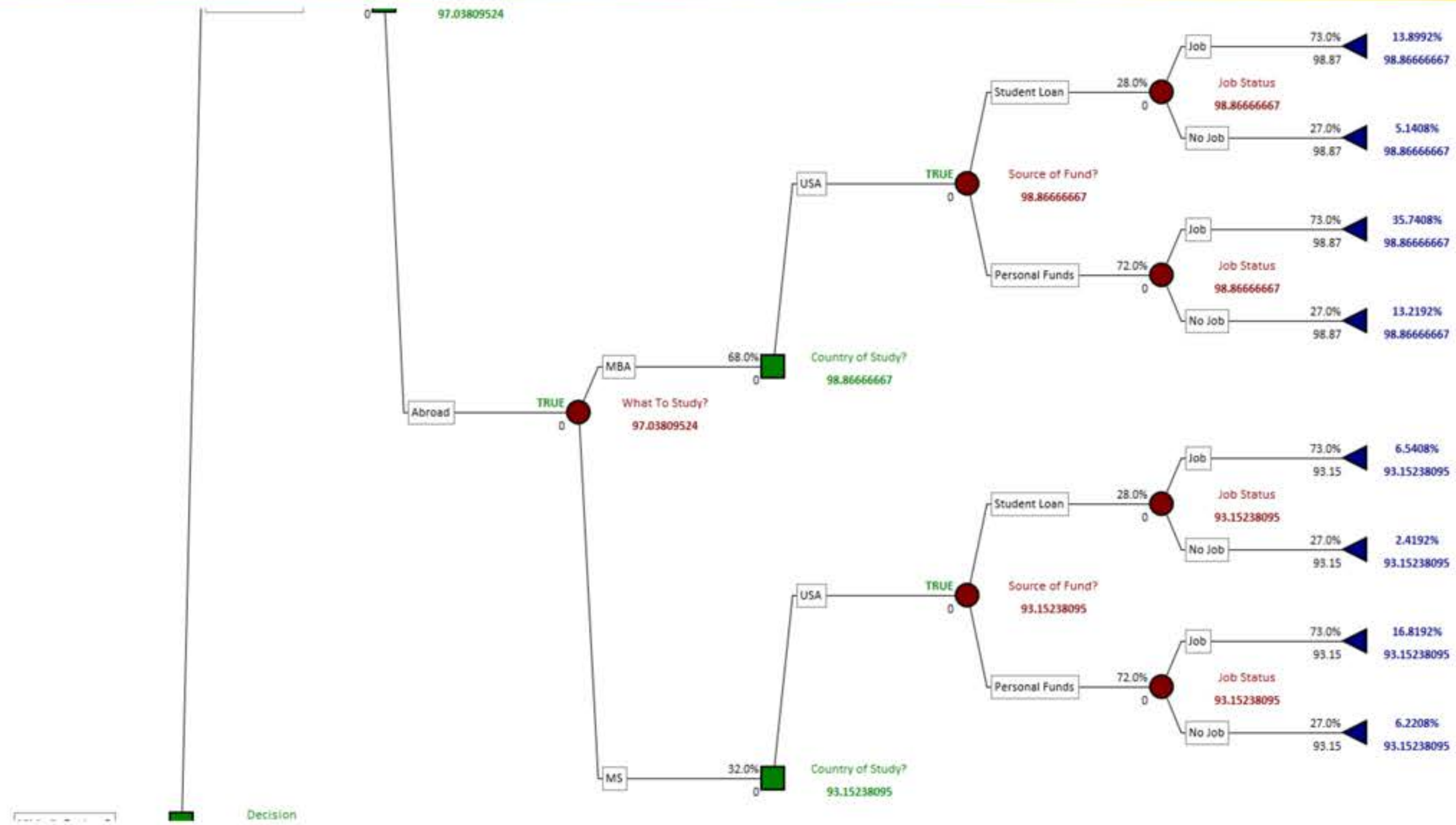


# Job in India

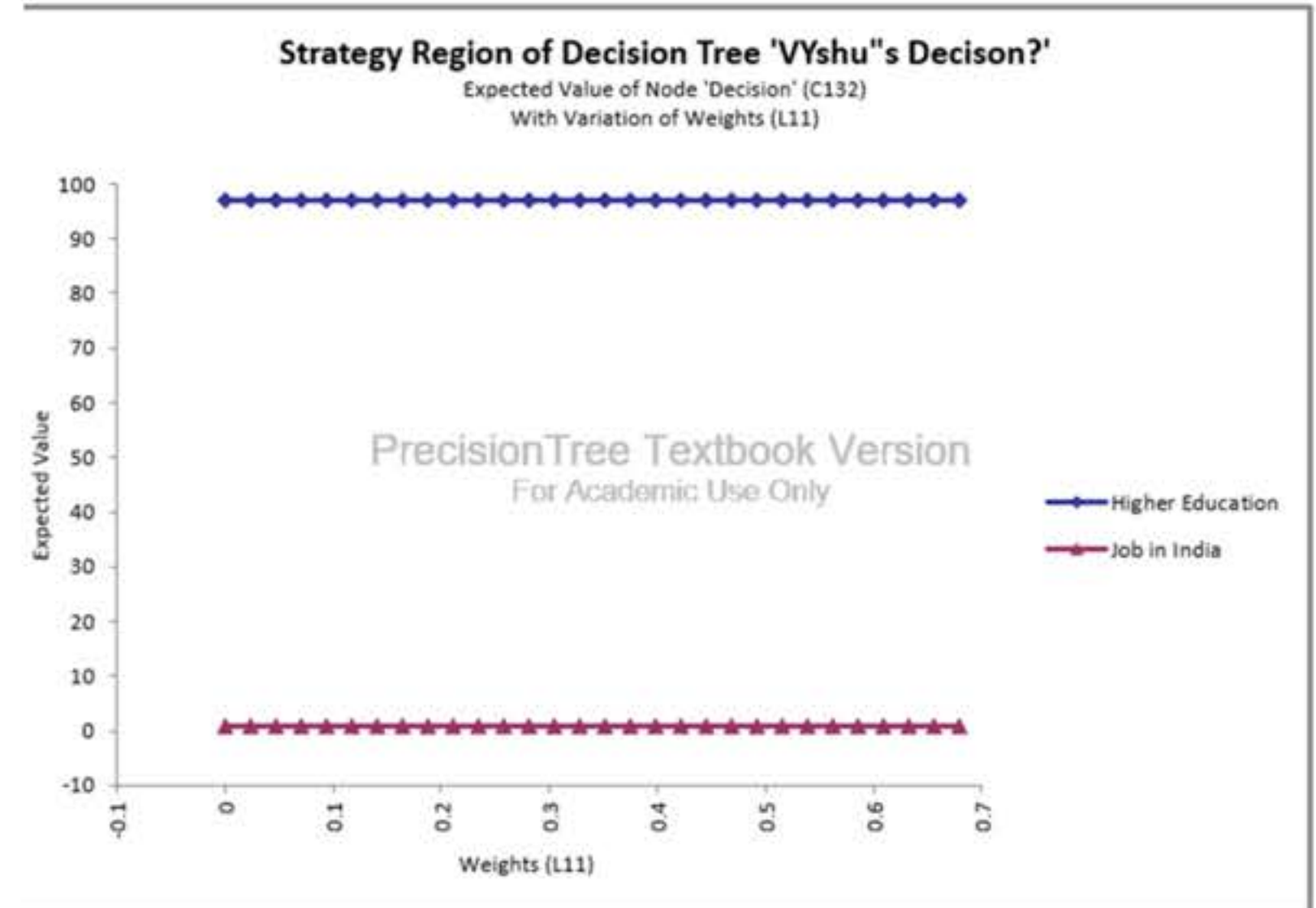
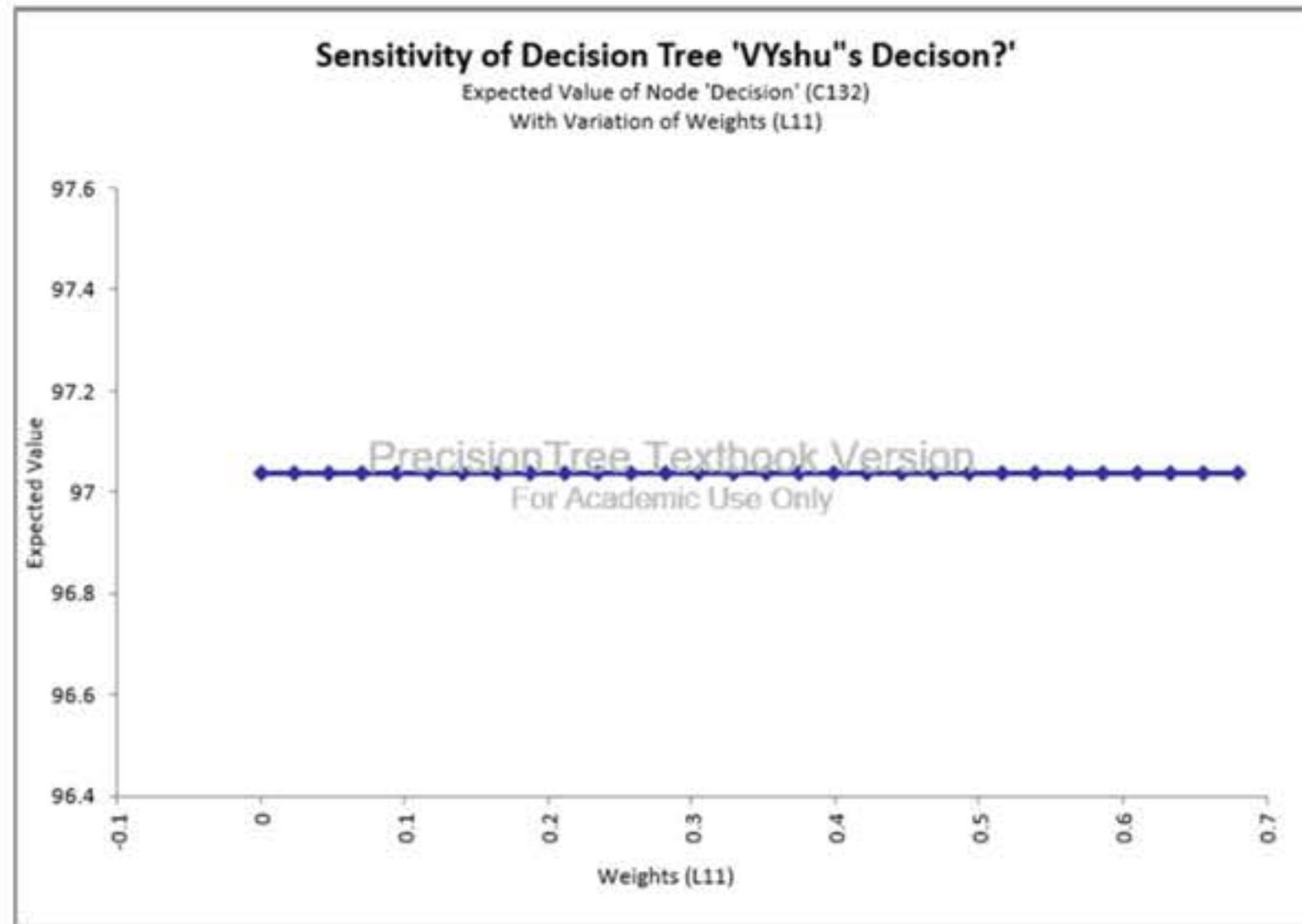




# Optimal Decision



# Sensitivity Analysis





# Final Decision/Recommendations

- It is the best balance of her personal goals, financial stability, and career prospects.
- Trends over the period are taken into consideration,
- Considers both her financial and professional requirements
- Both Opportunities and long term goals are considered.

THANK YOU