

The Titanic GenIQ Model Identification of Survivors

RMS TITANIC

<b>died</b>	<b>(1490)</b>	<b>67.7%</b>
<b>survived</b>	<b>(711)</b>	<b>32.3%</b>
<b>Total</b>	<b>2201</b>	

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<b>Total</b>	<b>2201</b>	

**GENDER**

**female**

**male**

**26.8%**

**78.8%**

**73.2%**

**21.2%**

**470**

**1731**

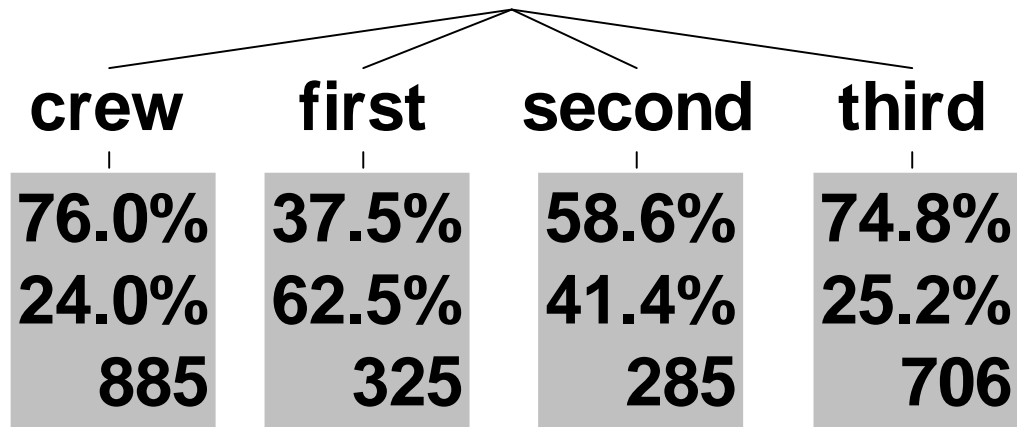
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**AGE**

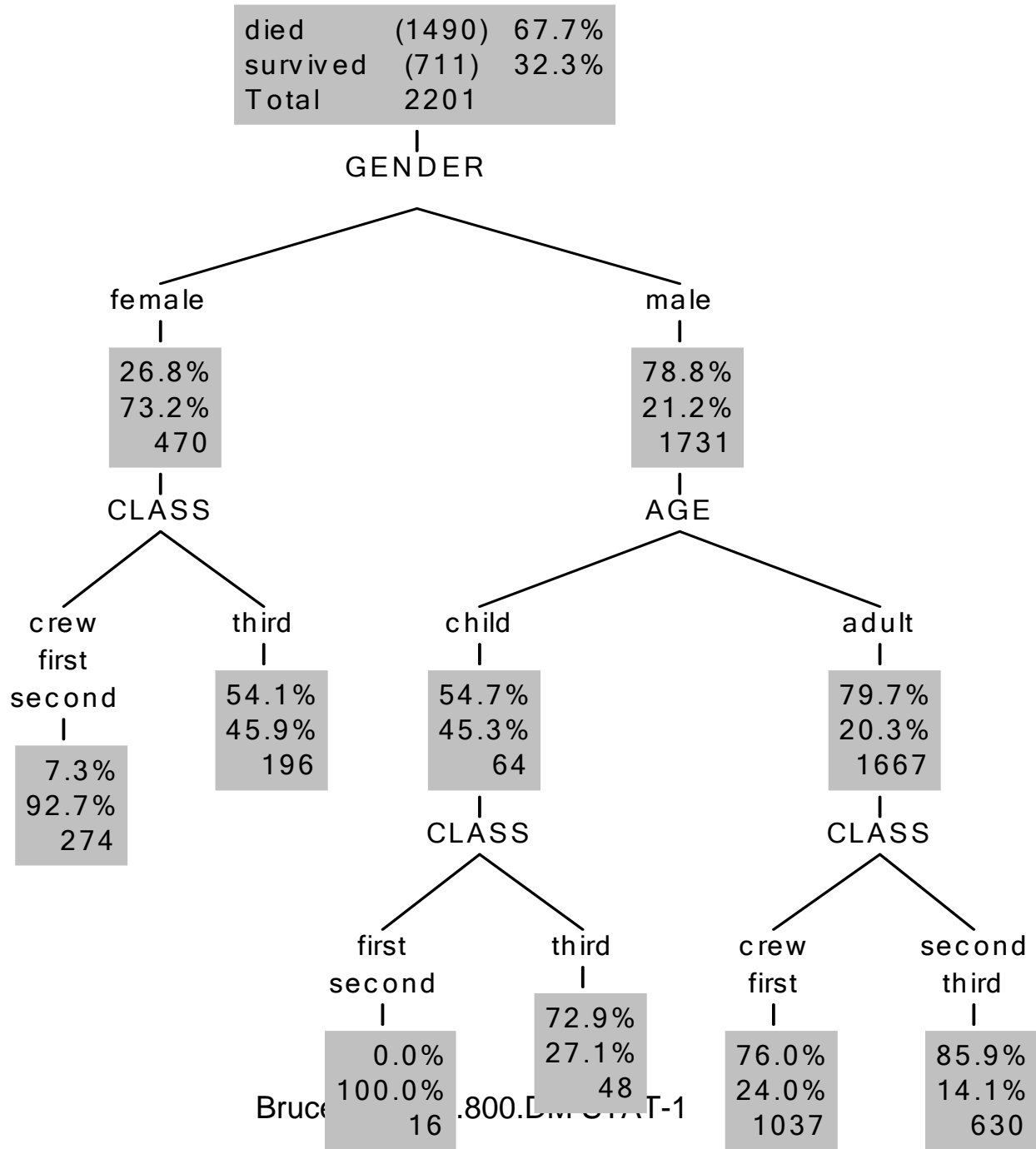
<b>child</b>	<b>adult</b>
<b>47.7%</b>	<b>68.7%</b>
<b>52.3%</b>	<b>31.3%</b>
<b>109</b>	<b>2092</b>

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**CLASS**



# CHAID



Bruce .800.Dm STAT-1

\*

# CHAID-based Logistic Regression Model (LRM)

- $\text{logit}(\text{Survived}) =$   
- 1.30 + 1.89\*female + 1.10\*first  
+ 0.59\*second - 0.68\*madlt\_23\*
- **SCC|PS = % Survivors Correctly Classified  
among those Predicted Survivors**

\* madlt\_23 = 2<sup>nd</sup> and 3<sup>rd</sup> class male adults

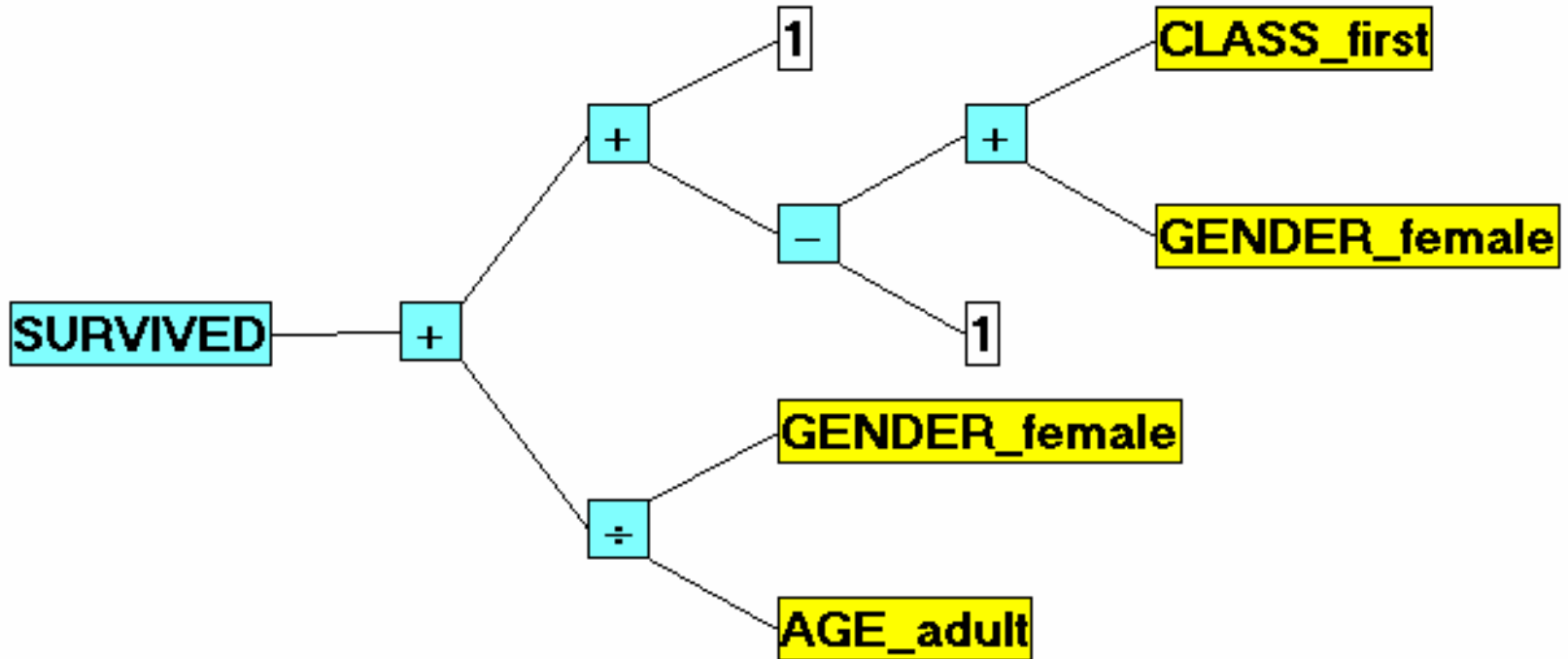
# CHAID-based

## Logistic Regression Model: SCC|PS = 60.05%

	Predicted Deceased	Predicted Survivors	total
Actual Deceased	1206	284	1490
Actual Survivors	284	<b>427</b>	711
total	1490	711	2201

- **SCC|PS = % Survivors Correctly Classified among those Predicted Survivors**

# GenIQ Model



# GenIQ Model

```
x1 = AGE_adult;  
  x2 = GENDER_female;  
  If x1 NE 0 Then x1 = x2 / x1; Else x1 = 1;  
  x2 = 1;  
  x3 = GENDER_female;  
  x4 = CLASS_first;  
  x3 = x3 + x4;  
  x2 = x3 - x2;  
  x3 = 1;  
  x2 = x2 + x3;  
  x1 = x1 + x2;  
GenIQvar = x1;
```

## GenIQ Model: SCC|PS = 60.62%

	Predicted Deceased	Predicted Survivors	total
Actual Deceased	1210	280	1490
Actual Survivors	280	<b>431</b>	711
total	1490	711	2201

- GenIQ Model IMPROVEMENT over LRM
- **0.95% (= 60.62%/60.05%)**
- **4 survivors** (that is a lot if they are your family)

# ON THE OTHER SIDE: "TITANIC" DISASTER SURVIVORS IN NEW YORK.

PHOTOGRAPHS BY LEITCH, S. AND G. THOMPSON, AND I.F.A.



1. THE WINNERS OPERATOR HAS RECEIVED THE "TITANIC" DISASTER SURVIVORS. 2. A GROUP OF CHILDREN FOR A WHILE. 3. LLOYD AND BISHOP BARRATT.

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# Titanic Survivors in New York

# Last U.S. survivor of Titanic sinking, 99, dies

## Lillian Gertrud Asplund was 5 when liner sank in North Atlantic in 1912

**AP** Associated Press

updated 7:57 a.m. ET, Mon., May 8, 2006

BOSTON - Lillian Gertrud Asplund, the last American survivor of the sinking of the Titanic in 1912, has died, a funeral home said Sunday. She was 99.

Asplund, who was just 5 years old, lost her father and three brothers — including a fraternal twin — when the “practically unsinkable” ship went down in the North Atlantic after hitting an iceberg.

She died Saturday at her home in Shrewsbury, said Ronald E. Johnson, vice president of the Nordgren Memorial Chapel in Worcester, Mass.



AP file

Lillian Gertrud Asplund, the last American survivor of the Titanic disaster

# Millvina Dean dies at 97; last Titanic survivor



Nancy Palmieri / Associated Press

Millvina Dean signs a "Titanic" movie poster at the Titanic Historical Society's convention in 1998.

For a *free-n-easy* discussion of The GenIQ Model go to:  
[www.GenIQModel.com](http://www.GenIQModel.com)



RMS TITANIC