

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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**GENDER**

**female**

**male**

**26.8%**

**78.8%**

**73.2%**

**21.2%**

**470**

**1731**

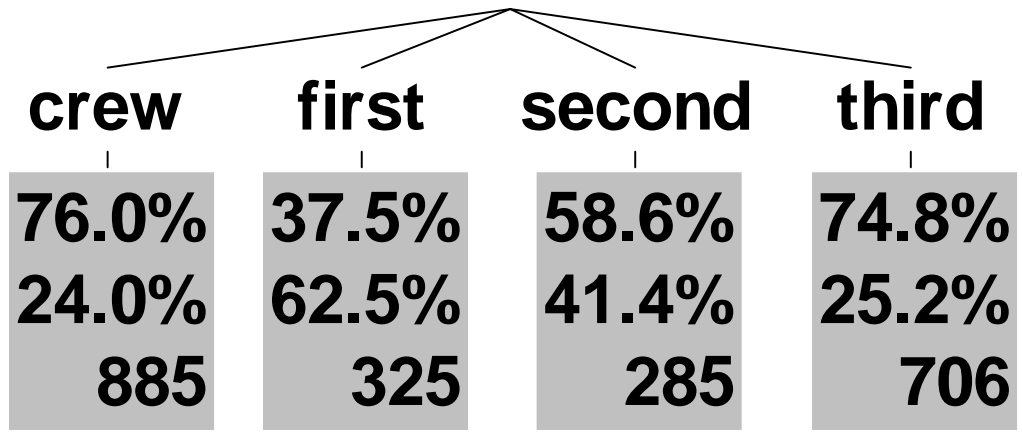
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**AGE**

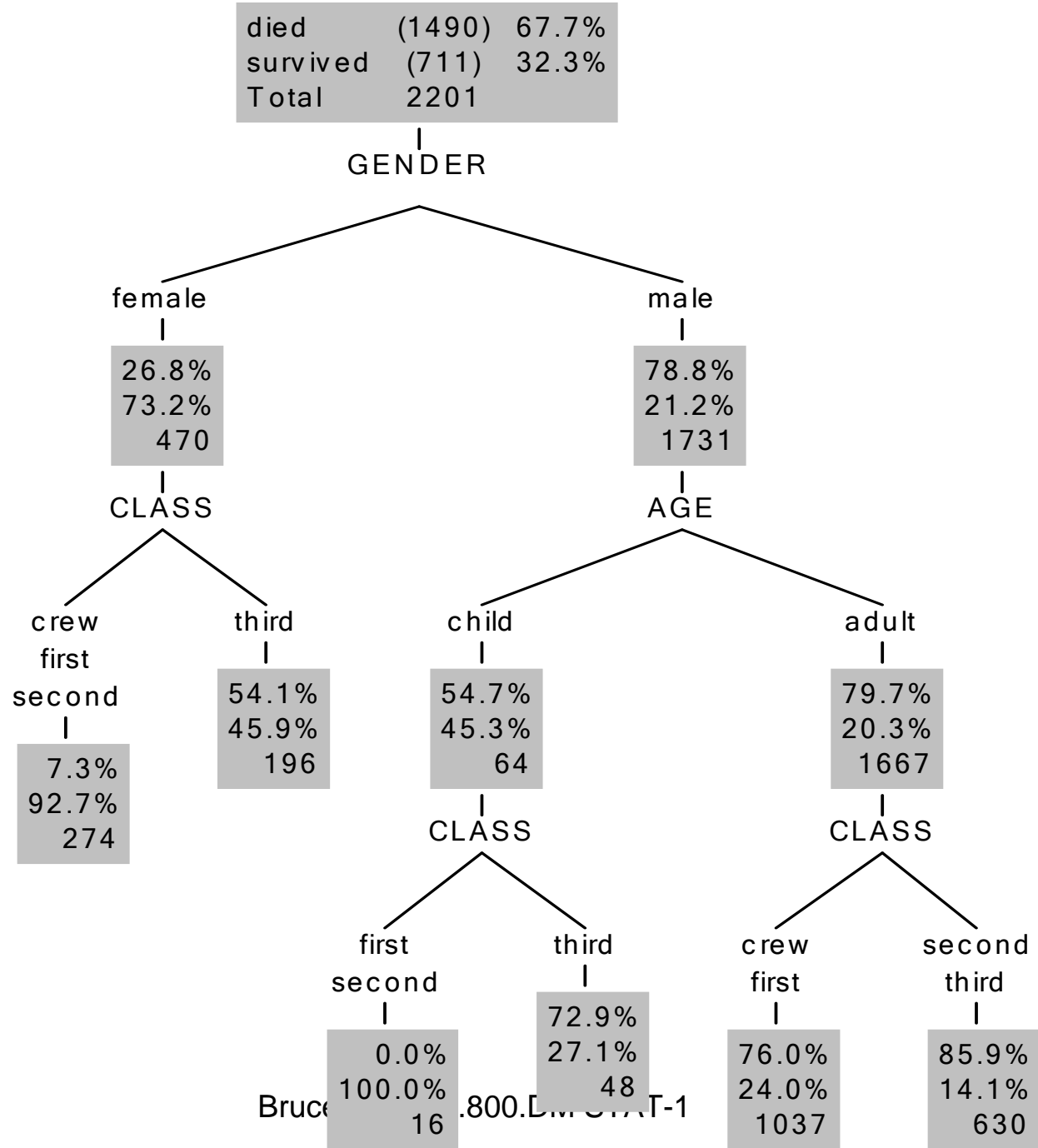
<b>child</b>	<b>adult</b>
<b>47.7%</b>	<b>68.7%</b>
<b>52.3%</b>	<b>31.3%</b>
<b>109</b>	<b>2092</b>

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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

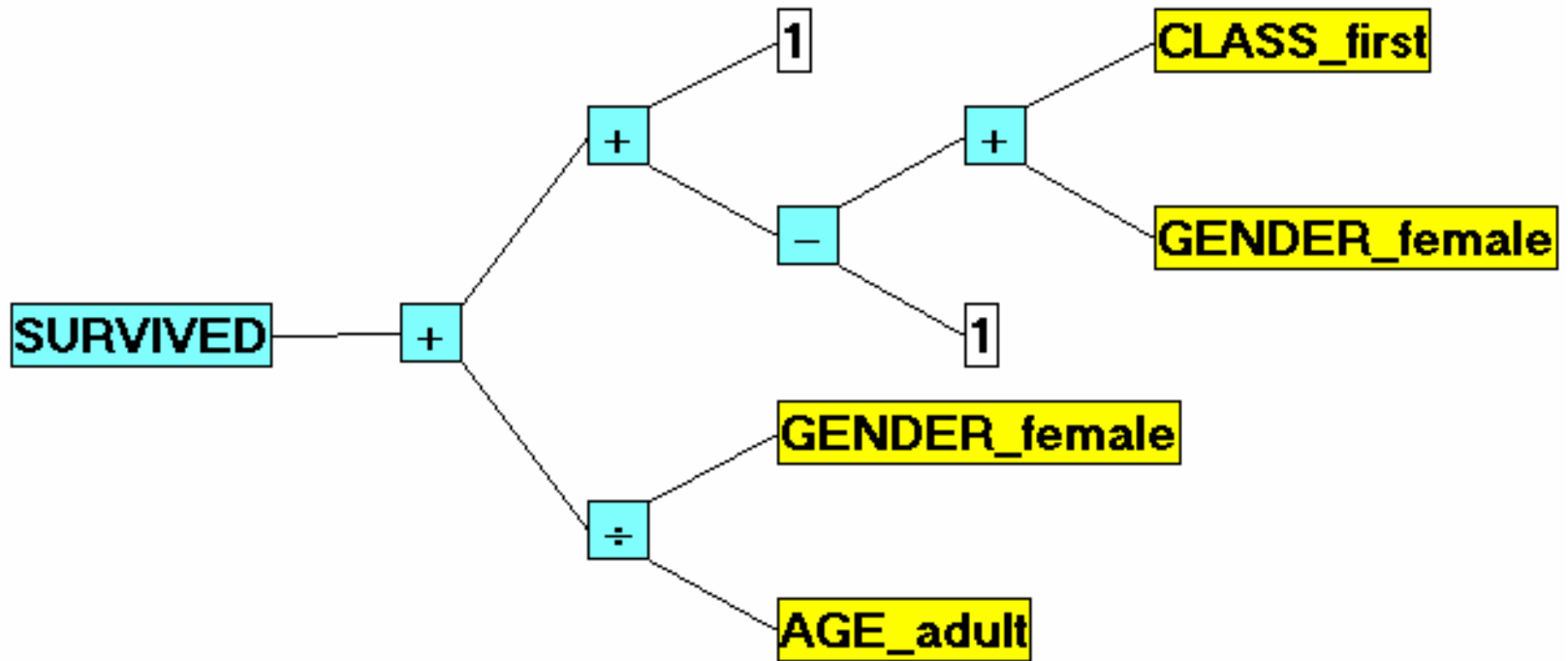
## CHAID-based

### 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

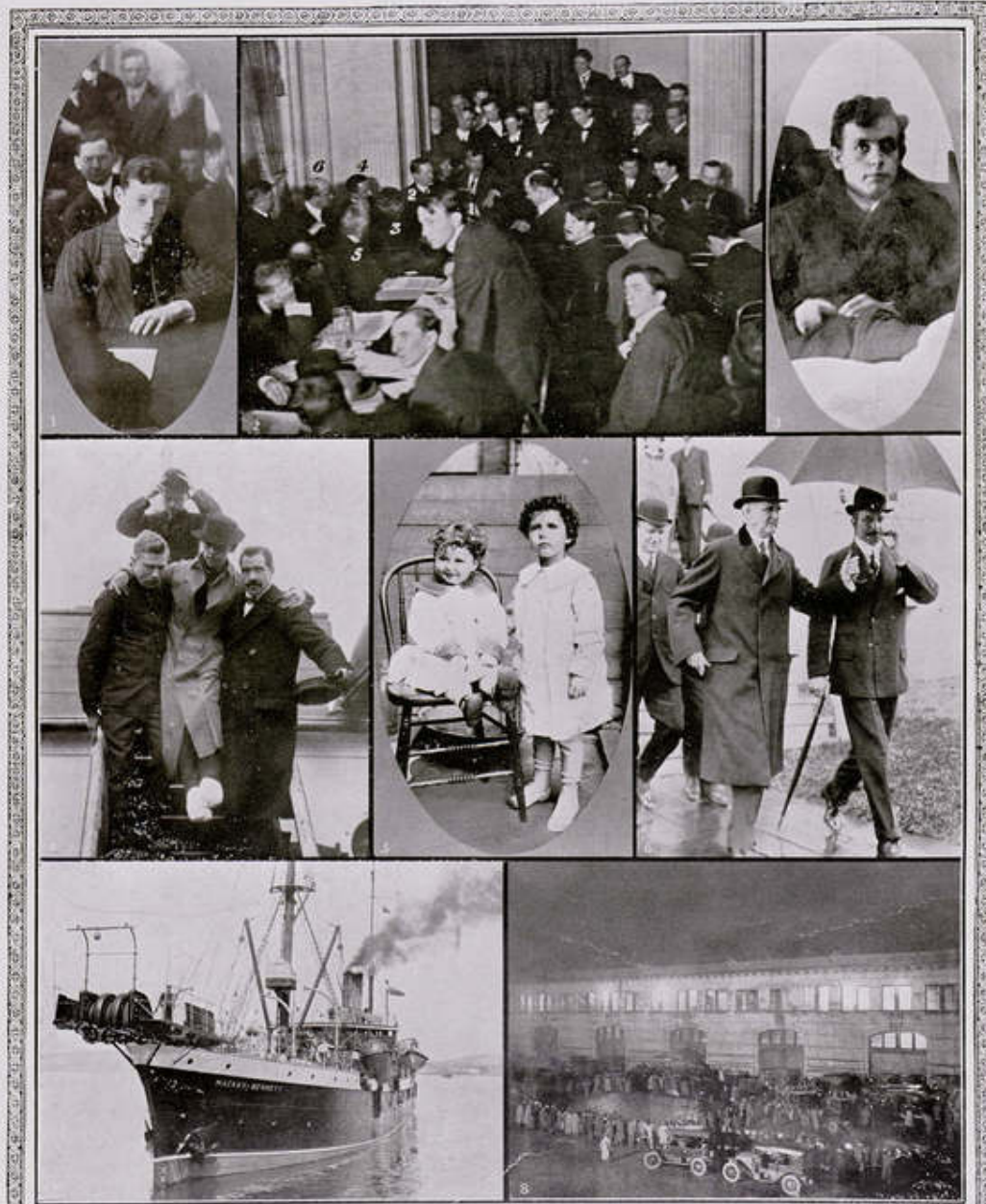
- GenIQ Model IMPROVEMENT over LRM
- 0.95% (= 60.62%/60.05%)
- 4 survivors (that is a lot if they are your family)

For a *free-n-easy* discussion of The GenIQ Model go to:  
[www.dmstat1.com/software.html](http://www.dmstat1.com/software.html)

RMS Titanic

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

PHOTOGRAPHS BY LUTICK, S. AND G., THOMPSON, AND L.N.A.



1. THE WIRELESS OPERATOR WHO RECEIVED THE "TITANIC" DISASTER SIGNALS. 2. A SOCIETY CHILDREN FOR A WHILE. 3. LOLO AND BUBBER SAVATHE.

LIBRARY  
HSLIIRB

# Titanic Survivors in New York