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| Layers | Description |
| Input | 32x32x3 RGB image |
| Convolution 5x5 | 1x1 stride, valid padding, outputs 28x28x6 |
| ReLU |  |
| Max pooling | 2x2 stride, valid padding outputs 14x14x6 |
| Convolution 5x5 | 1x1 stride, valid padding, outputs 10x10x16 |
| ReLU |  |
| Max Pooling | 2x2 stride, valid padding outputs 5x5x16 |
| Flatten | Output size 400 |
| Fully Connected | Output size 120 |
| ReLU |  |
| Fully Connected | Output size 84 |
| ReLU |  |
| Dropout | Keep probability 0.5 for training and 1.0 for validation and test |
| Fully Connected | Output size 43 |
| Softmax |  |

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| Image | Prediction |
| Roundabout mandatory | Roundabout mandatory |
| Wild animals crossing | Wild animals crossing |
| Bicycles crossing | Right-of-way at the next intersection (no top 5) |
| Slippery road | Slippery road |
| Beware of ice/snow | Children crossing (ice 2nd) |

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| Probability | Prediction |
| 1.0 | Roundabout mandatory |
| 3.7e-9 | Turn right ahead |
| 4.7e-10 | Ahead only |
| 3.8e-10 | Keep right |
| 1.7e-10 | Go straight or left |

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| Probability | Prediction |
| 0.99 | Wild animals crossing |
| 7.3e-5 | Double curve |
| 5.5e-7 | Road work |
| 6.8e-8 | Dangerous curve to the left |
| 1.2e-9 | Slippery road |

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| Probability | Prediction |
| 0.99 | Roundabout mandatory |
| 5.6e-4 | Right-of-way at the next intersection |
| 3.5e-8 | Beware of ice/snow |
| 3.3e-8 | Speed limit (100km/h) |
| 1.3e-8 | Vehicles over 3.5 metric tons prohibited |

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| Probability | Prediction |
| 1.0 | Slippery road |
| 2.2e-8 | Dangerous curve to the left |
| 8.2e-18 | Double curve |
| 4.6e-18 | Right-of-way at the next intersection |
| 7e-22 | Wild animals crossing |

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| Probability | Prediction |
| 0.72 | Right-of-way at the next intersection |
| 0.28 | Beware of ice/snow |
| 1.3e-4 | Children crossing |
| 4.5e-5 | Slippery road |
| 1.2e-7 | No passing for vehicles over 3.5 metric tons |