

Figuring Out Image Recognition

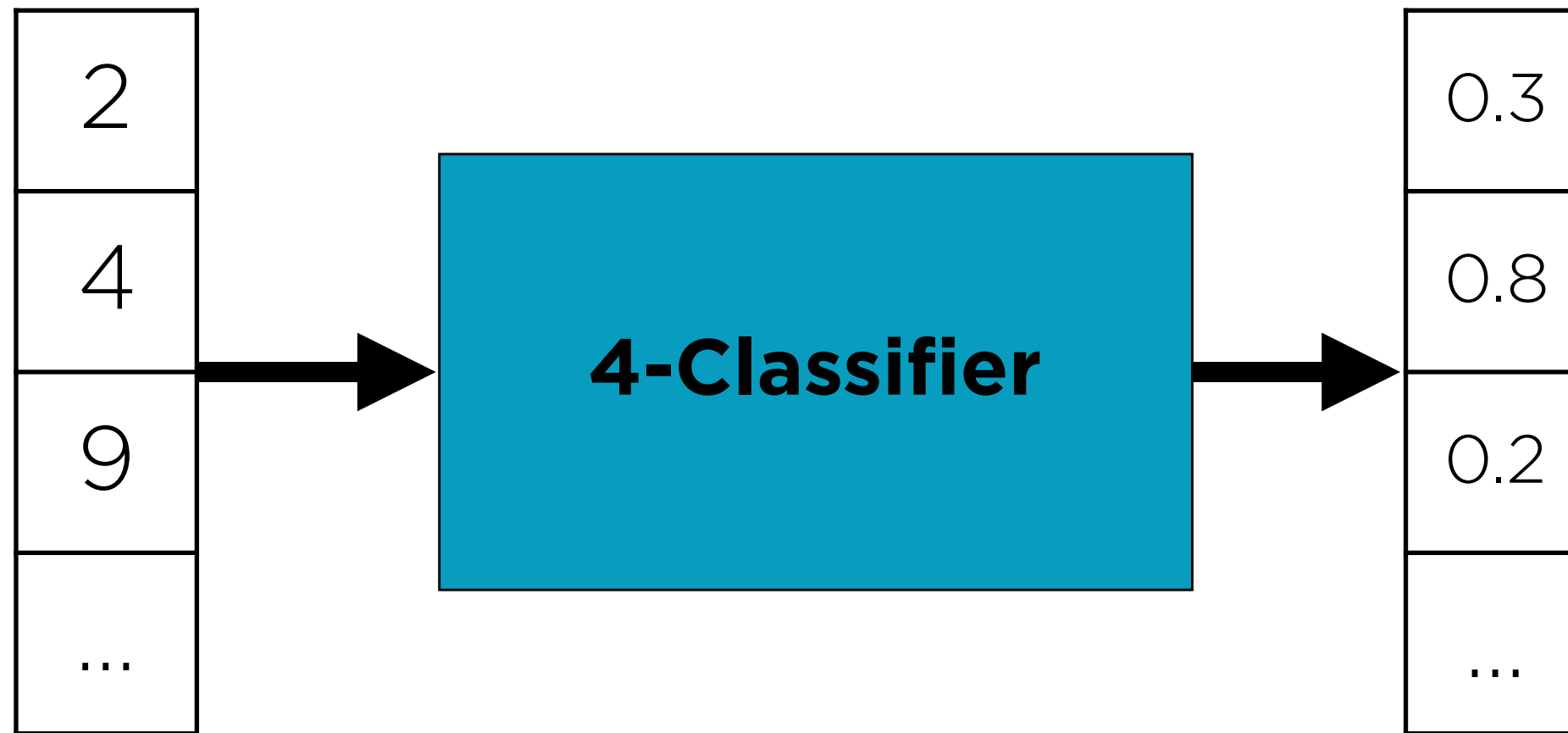


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@nusco

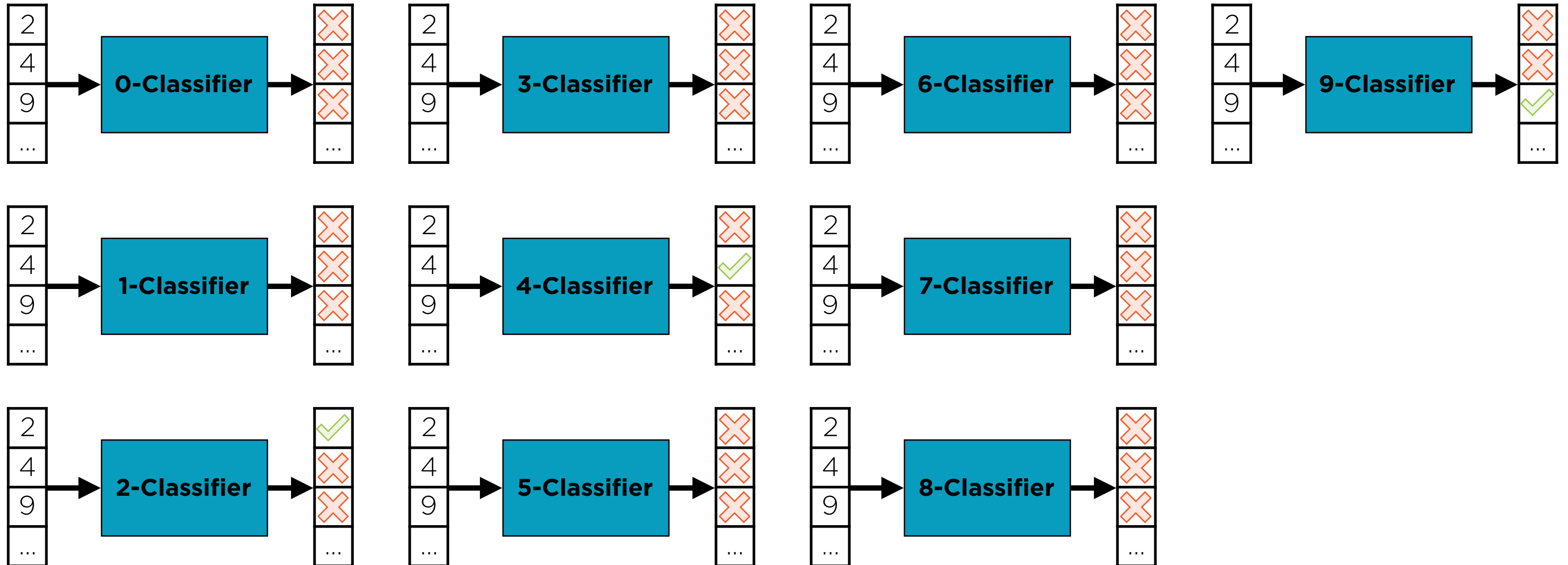
A Binary Classifier



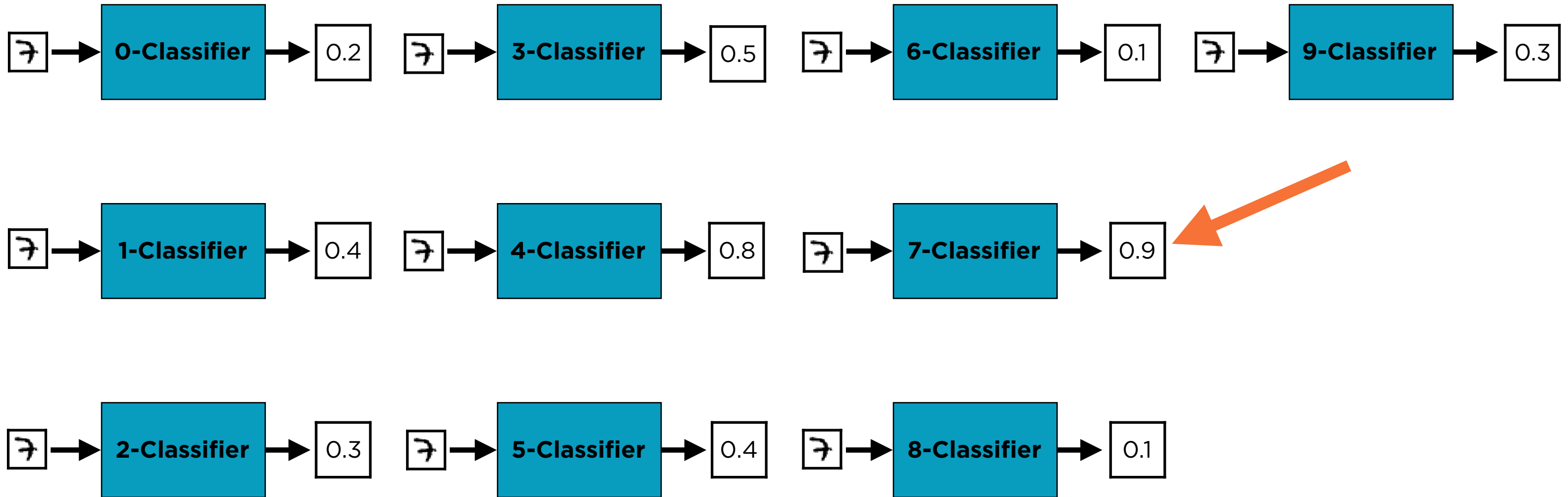
A Multiclass Classifier



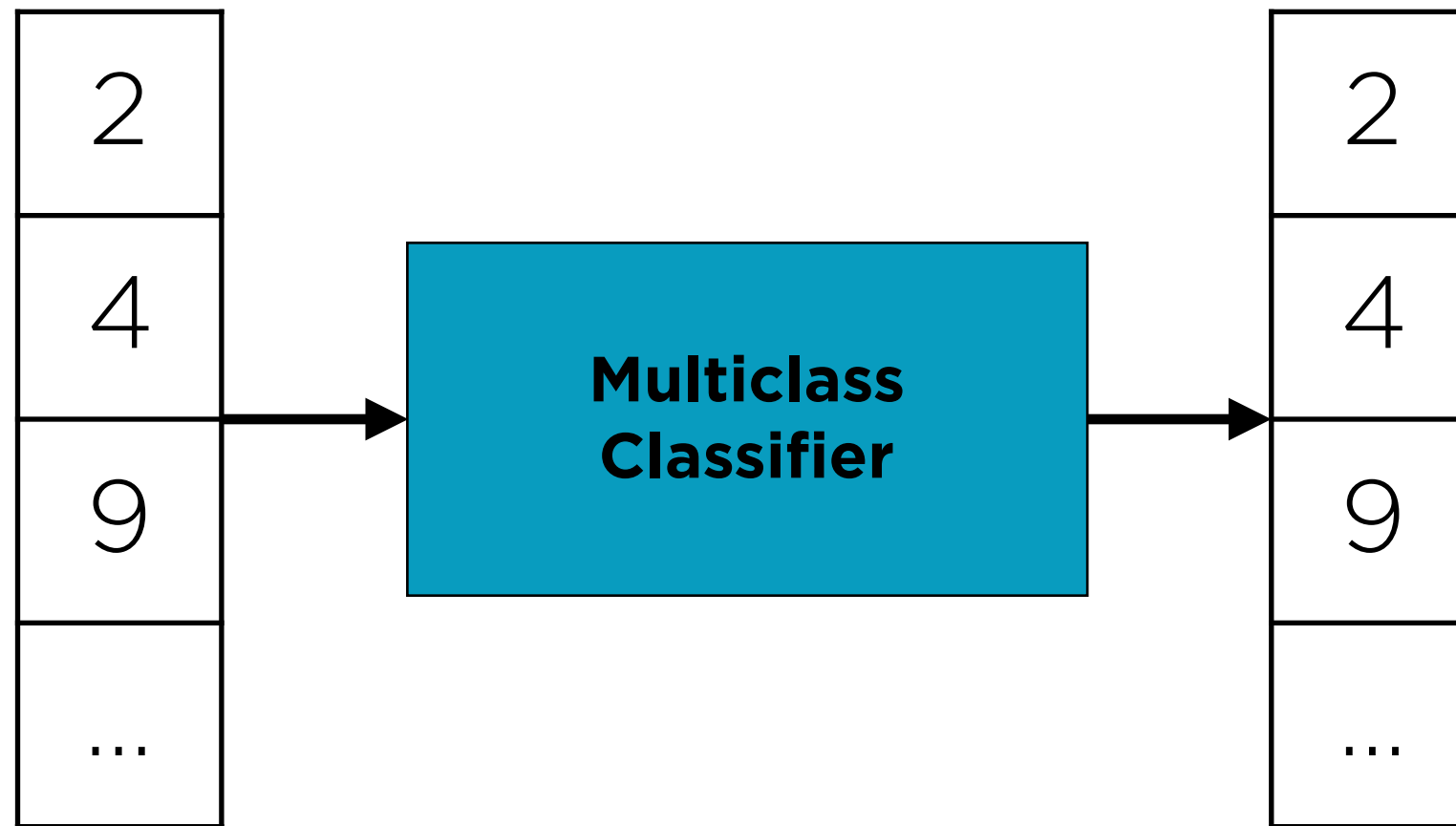
10 Binary Classifiers



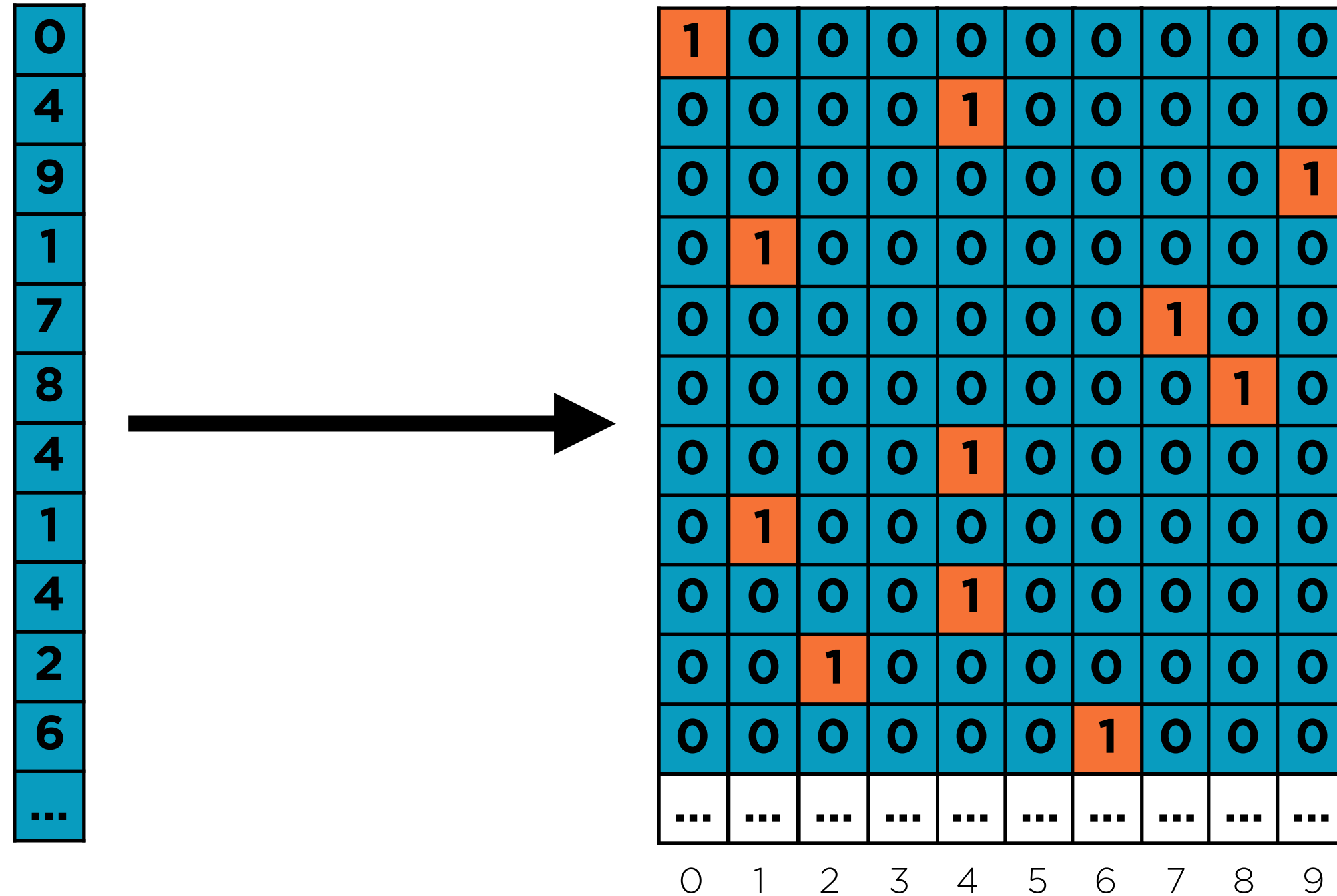
10 Binary Classifiers



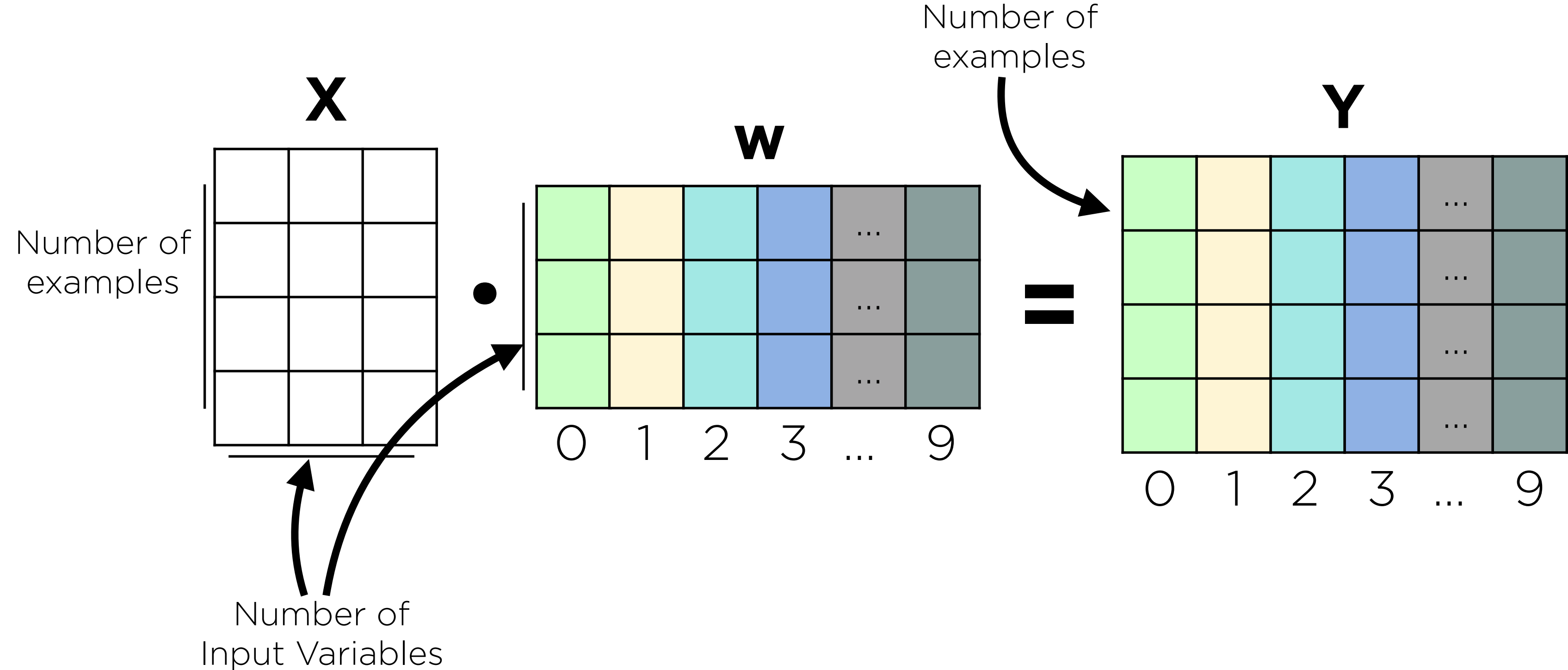
A Multiclass Classifier



One Hot Encoding



The Core Matrix Operation in the System



Decoding the Predictions

| | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|
| 0.89 | 0.22 | 0.16 | 0.68 | 0.41 | 0.34 | 0.60 | 0.23 | 0.34 | 0.44 |
| 0.61 | 0.12 | 0.98 | 0.45 | 0.32 | 0.73 | 0.47 | 0.43 | 0.54 | 0.65 |
| 0.65 | 0.12 | 0.02 | 0.16 | 0.64 | 0.42 | 0.74 | 0.44 | 0.54 | 0.46 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |