

|     |     |     |
|-----|-----|-----|
| 0.6 | 0.1 | 0.5 |
| 0.8 | 0.2 | 0.4 |

Hidden Layer  
Weight Matrix

Activations  
Input Layer

|     |
|-----|
| 1.0 |
| 0.7 |
| 0.3 |

=

|      |
|------|
| 0.82 |
| 1.06 |

$\mathbf{z}^{(1)}$

Activations  
Hidden Layer

|      |
|------|
| 0.82 |
| 1.06 |

$\varphi$

+  $\mathbf{d}[0] = 1$

Output Layer  
Weight Matrix

|     |     |     |
|-----|-----|-----|
| 0.9 | 0.3 | 0.7 |
|-----|-----|-----|

|      |
|------|
| 1.00 |
| 0.82 |
| 1.06 |

$\mathbf{z}^{(2)}$

=

|       |
|-------|
| 1.888 |
|-------|

$\varphi$

|       |
|-------|
| 1.888 |
|-------|

Output

Activations  
Hidden Layer