perceptron-aas

Train perceptrons as a service

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API

1. PREDICT

1.1 POST /predict

Make a prediction with a trained perceptron

REQUEST

REQUEST BODY - application/json

```
{
    input*                  [number]
    config* {
    A Perceptron configuration
        alpha*       number    DEFAULT:0.1
                               The adjustment made to the weights on each iteration
        dimension*   number    DEFAULT:1
                               The number of inputs provided to the Perceptron
        weights      [number]
    }
}
```

RESPONSE

STATUS CODE - 200: Resulting prediction from a Perceptron

RESPONSE MODEL - application/json

```
{
    result*   number    The resulting prediction
}
```

STATUS CODE - 500: Error response

RESPONSE MODEL - application/json

```
{
    error* {
    Error descriptor
        message*    string     The error message
        backtrace*  [string]
    }
}
```

2. STEP

2.1 POST /step

Step

Step the Perceptron training

REQUEST

REQUEST BODY - application/json
```
{
    inputs* [{
    Array of object:

    }]
    targets*                [number]
    config* {
    A Perceptron configuration

        alpha*       number       DEFAULT:0.1
                                  The adjustment made to the weights on each iteration
        dimension*   number       DEFAULT:1
                                  The number of inputs provided to the Perceptron
        weights      [number]
    }
}
```

RESPONSE

STATUS CODE - 200: Trained perceptron result

RESPONSE MODEL - application/json
```
{
    result* {
    A Perceptron configuration

        alpha*       number       DEFAULT:0.1
                                  The adjustment made to the weights on each iteration
        dimension*   number       DEFAULT:1
                                  The number of inputs provided to the Perceptron
        weights      [number]
    }
}
```

STATUS CODE - 500: Error response

RESPONSE MODEL - application/json
```
{
    error* {
    Error descriptor

        message*    string       The error message
        backtrace*  [string]
    }
}
```

3. TRAIN

3.1 POST /train

Train

Train a Perceptron with the provided configuration

REQUEST

REQUEST BODY - application/json

```
{
    inputs* [{
    Array of object:

    }]
    targets*                [number]
    config* {
    A Perceptron configuration

        alpha*      number      DEFAULT:0.1
                                The adjustment made to the weights on each iteration
        dimension*  number      DEFAULT:1
                                The number of inputs provided to the Perceptron
        weights     [number]
    }
}
```

RESPONSE

STATUS CODE - 200: Trained perceptron result

RESPONSE MODEL - application/json

```
{
    result* {
    A Perceptron configuration

        alpha*      number      DEFAULT:0.1
                                The adjustment made to the weights on each iteration
        dimension*  number      DEFAULT:1
                                The number of inputs provided to the Perceptron
        weights     [number]
    }
}
```

STATUS CODE - 500: Error response

RESPONSE MODEL - application/json

```
{
    error* {
    Error descriptor

        message*    string      The error message
        backtrace*  [string]
    }
}
```