

CCE Proficience – 2018

**Basics of Data Analytics – ML & NLP**

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**Assignment 4**

Q1. Verify that Eigen value is 4 and Eigen Vector **v** = (1, 1) for given matrix A.

A =

Q2. Verify that Eigen value is 3 and Eigen Vector **v** = (2, 1, -1) for given matrix A.

A =

Q3. Given that **v1** = (1, -2) and **v2** = (1, 1) are eigen vectors of **A**, determine the eigen values of **A**.

A =

Q4. Determine all eigen values and corresponding eigen vectors of the given matrix A. If,

1. A =
2. A =
3. A =