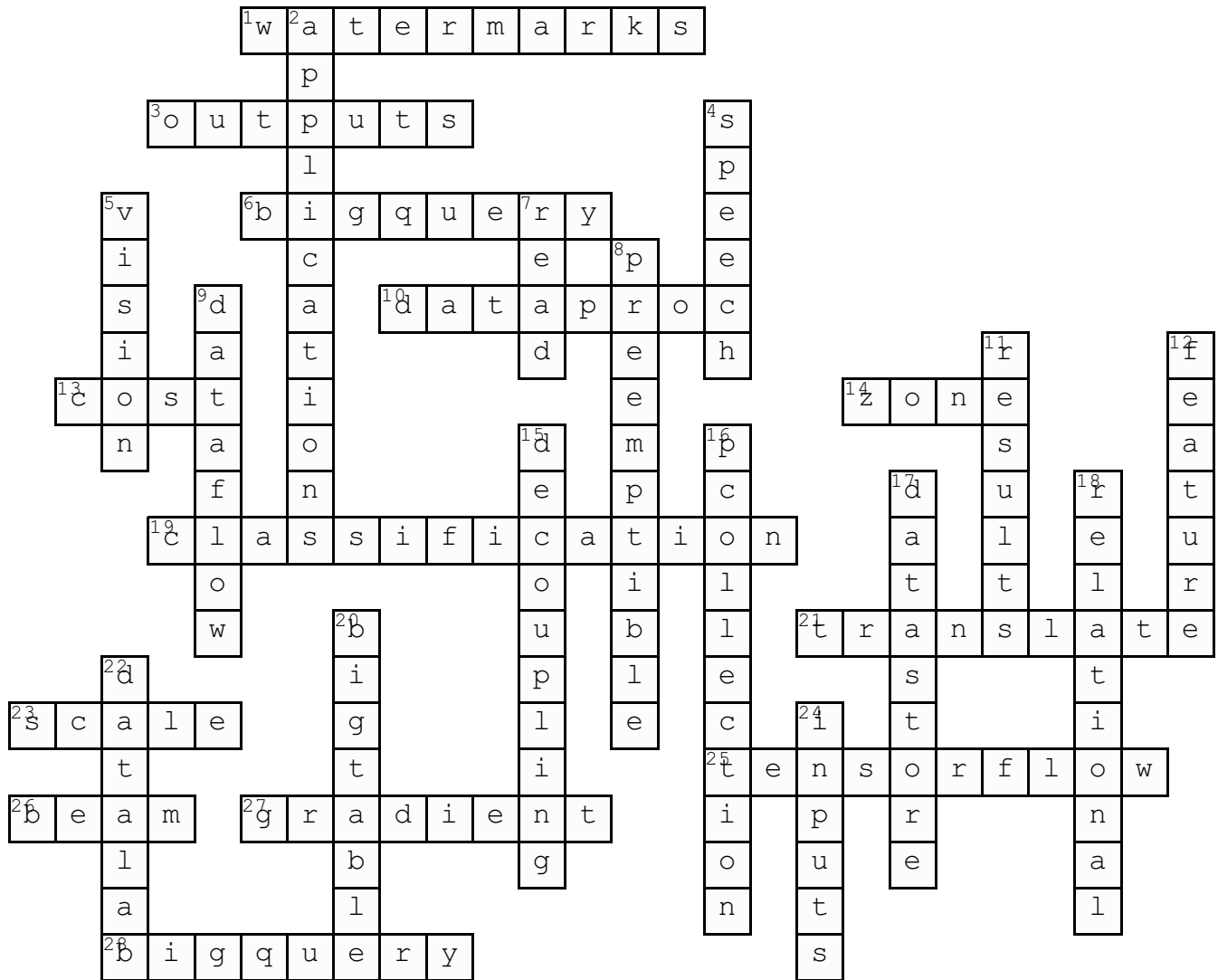# Dr. Elainas' GCP Challenge

Feeling precipitationous? If you can nimbusly guess all the clues a prize awaits on high!

Crossword grid with the following filled-in answers:

- 1 across: watermarks
- 3 across: outputs
- 6 across: bigquery
- 10 across: dataproc
- 13 across: cost
- 14 across: zone
- 19 across: classification
- 21 across: translate
- 23 across: scale
- 25 across: tensorflow
- 26 across: beam
- 27 across: gradient
- 28 across: bigquery

Down answers (as visible):
- 2 down: applicat... (a, p, l, i, c, a, t, i, o, n)
- 4 down: speee... (s, p, e, e, e)
- 5 down: vision (v, i, s, i, o, n)
- 7 down: rede... (r, e, d, e, e, m)
- 8 down: pr... (p, r, o, c, h, e, e, m, p...)
- 9 down: datastation (d, a, t, a, t, i, o, n)
- 11 down: results (r, e, s, u, l, t, s)
- 12 down: feature (f, e, a, t, u, r, u, l)
- 13 down: conflow (c, o, n, f, l, o, w)
- 15 down: deployig (d, e, o, u, p, l, i, g)
- 16 down: pclbleec (p, c, l, b, l, e, e, c)
- 17 down: datastre (d, a, t, a, s, t, r, e)
- 18 down: relig... (r, e, l, l, t, i, n, a, l)
- 20 down: bigtbl (b, i, g, t, b, l)
- 22 down: data (d, t, a, l, a)
- 24 down: ltensorflow... (l, t, i, o, n, s)
- 25 down: tioninputs (t, i, o, n, p, u, t, s)

Created with TheTeachersCorner.net Crossword Puzzle Generator

Across

1. In Dataflow this is the term for the system's notion of when all data in a certain window can be expected to have arrived in the pipeline. (**watermarks**)

3. Machine Learning is a way to derive insights from data by adjusting weights on a model such that _____ are close to labels. (**outputs**)

6. This GCP product is ideal for warehousing structured data. (**bigquery**)

10. This GCP product lets you run Spark and Hadoop clusters with minimal administration. (**dataproc**)

13. Running Cloud SQL and Cloud Dataproc on Google infrastructure offers reliability and _____ savings (**cost**)

14. This determines the Google data center where compute nodes will be in Dataproc. (**zone**)

19. Logistic Regression is a type of machine learning that preforms _____ on your data. (**classification**)

21. This API can be used to build an application to monitor Dutch twitter feeds. (**translate**)

23. Cloud ML Engine can be used no-ops, for custom machine learning at _____. (**scale**)

25. A symbolic math library used extensively for ML applications on GCP. (**tensorflow**)

26. Dataflow executes Apache _____ pipelines. (**beam**)

27. To find the minimum of a function with a first-order iterative optimization we use _____ descent. (**gradient**)

28. This GCP product supports nested and repeated fields (**bigquery**)

Down

2. Pub/sub connects _____ and services through a messaging infrastructure (**applications**)

4. This API can be used to transcribe customer support calls. (**speech**)

5. This API can be used to automatically reject inappropriate image content. (**vision**)

7. Google Cloud Storage is a good option for storing data that may be required to be _____ at some later time (**read**)

8. A Dataproc _____ VM costs less but may not be always available. (**preemptible**)

9. This product is used for scalable, fault-tolerant multi-step data processing. (**dataflow**)

11. Dataflow models find where _____ are calculated via event-time windowing (**results**)

12. In ML this is an attribute or property shared by all of the independent units on which analysis or prediction is to be done. (**feature**)

15. Cloud Dataflow is a good use case for _____ producers and consumers of data in large organizations and complex systems (**decoupling**)

16. This is the term used on GCP for a set of data in your Dataflow pipeline. (**pcollection**)

17. This GCP product is excellent to make use of when you want to search for objects by attribute value (**datastore**)

18. Databases that are a good choice when you need transactional updates on relatively small datasets (**relational**)

20. This GCP product is a great use case for high-throughput writes of wide-column data (**bigtable**)

22. When you want to develop Big Data algorithms interactively in Python on GCP it is best to go to _____. (**datalab**)

24. A neuron in a neural network combines these to a map part of the decision surface. (**inputs**)