



Linear regression Algorithm

Mahmoud Magdy

Computer engineering of Helwan university, cairo, Egypt

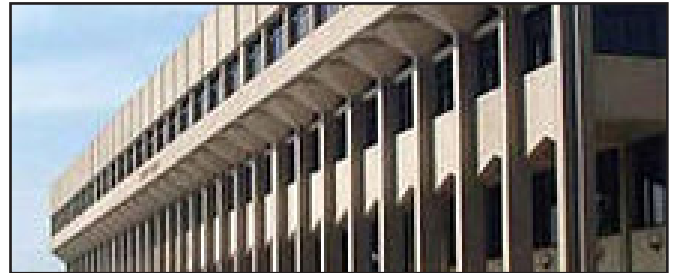
Abstract:

Linear regression is perhaps one of the most well-known and well understood algorithms in statistics and machine learning. Machine learning, more specifically the field of predictive modeling is primarily concerned with minimizing the error of a model or making the most accurate predictions possible, at the expense of explains ability. In applied machine learning we will borrow, reuse and steal algorithms from many different fields, including statistics and use them towards these ends. As such, linear regression was developed in the field of statistics and is studied as a model for understanding the relationship between input and output numerical variables, but has been borrowed by machine learning. It is both a statistical algorithm and a machine learning algorithm. Linear regression is an attractive model because the representation is so simple.

Biography:

Mahmoud Magdy has graduated from computer engineering department of Helwan university. He is working at data science field which include machine learning and deep learning,

He is specialist at natural language processing and its different models & algorithms.



Publication of speakers:

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2. Werner, Olaf & Elmosallamy, Mahmoud & Ros-Espín, Rosa. (2016). Molecular systematics of *Abelmoschus* (Malvaceae) and genetic diversity within the cultivated species of this genus based on nuclear ITS and chloroplast *rpL16* sequence data. *Genet Resour Crop Evol*. 63. 1-17. 10.1007/s10722-015-0259-x.
3. Elmosallamy, Mahmoud & Werner, Olaf & McDaniel, Stuart & Goffinet, Bernard & Ros-Espín, Rosa. (2016). Genomic scanning using AFLP to detect loci under selection in the moss *Funaria hygrometrica* along a climatic gradient in Sierra Nevada Mountains (Spain). *Plant Biology*. 18. 10.1111/plb.12381.
4. Ullah, Ihteram & Elmosallamy, Mahmoud & Wang, Lixiang & Liu, Mengyu & Li, Xia. (2019). Genome-wide identification and evolutionary analysis of TGA transcription factors in soybean. *Scientific Reports*. 9. 10.1038/s41598-019-47316-z.
5. Elmosallamy, Mahmoud & Ou, Lijun & Yu, Huiyang & Chen, Rong & Zhou, Yuhong & Shaker, Heba & Feng, Bihong & Taitano, Nathan & Knaap, Esther & Zou, Xuexiao & Li, Feng & Ouyang, Bo. (2019). Pan-plastome approach empowers the assessment of genetic variation in cultivated *Capsicum* species. *HORTICULTURE RESEARCH*. 6. 10.1038/s41438-019-0191-x.

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