Using Artificial Intelligence and Machine Learning to predict glucose levels for managing Diabetes in Humans

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Abstract:

Humans suffering with Diabetes should monitor their blood glucose levels every often and have their insulin doses adjusted to keep blood glucose levels to normalized quantities. In case of deviations, patient may suffer consequences in the form of complications to other bodily organs. Predictive models that can automatically warn patients of future changes to glucose levels in the blood will immensely help them take corrective actions and prevent a risky increase. This paper presents a scientific proposition using a common physiological model of glucose dynamics to create informational artifacts for a regression model that is modeled on specific patient information.

Biography:

Anuj Mathur has completed his PhD at the age of 42 years from Ohio University, USA, and is involved in leading pioneering research in the area of artificial intelligence and its applicability to clinical studies, with a focus on Diabetes.

Recent Publications:

1. Prevalence of HIV in a Tertiary Care Centre in Delhi: A Five-Year ICTC Based Study Banke Lal Sherwal,Poonam Gupta,Rojalin Nayak,Sanjib Gogoi,Sarika Suri,Renu Dutta. World Journal of AIDS. 2015; 05(01): 1

2. Recent trends in HIV prevalence in a remote setting of southern India: Insights into arranging HIV control policies. Sekar, R., Amudhan, M., Sivashankar, M., Mythreyee, M. Journal of Infection in Developing Countries. 2013;

3. Profile of presentation of Human Immunodeficiency Virus infection in North India, 2003-2007. Kumar, S. and Wanchu, A. and Abeygunasekera, N. and Sharma, A. and Singh, S. and Varma, Indian Journal of Community Medicine. 2012; 37(3): 158-16.

4. A study on the sociodemographic profile of the attendees at the integrated counselling and testing centre of a medical college in South India. Chennaveerappa, P.K., Halesha, B.R., Vittal, B.G., Jayashree, N. Journal of Clinical and Diagnostic Research. 2011; 5(3): 430-433

5. Perinatal tuberculosis: Two unusual cases, Basu, S., Kumar, A., Das, B.K.

6. Annals of Tropical Paediatrics. 2011; 31(1): 81-86

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