

MACHINE LEARNING-BASED PREDICTION OF POLYCYSTIC OVARY SYNDROME

Pavithra M J^{1}, Nirmala² & Rekha S Kambl³*

^{1,2}Lecturer, Department of Electronics and Communication Engineering, Government Polytechnic K R Pet, INDIA

³Lecturer, Department of Computer Science and Engineering, Government Polytechnic K R Pet, INDIA

ABSTRACT

Polycystic ovary syndrome (PCOS) is a common hormonal disorder in women of reproductive e age. It is very difficult to fix the exact cause for PCOS. Timely diagnosis and treatment may reduce the risk of long-term complications of PCOS. A prediction model for the diagnosis of PCOS using a Category based feature selection method is proposed, which assist doctors in the diagnosis of PCOS with few available features. The data set used for the study was taken from KAGGLE and the major prediction method used are Logistic regression, Neural Networks and Random forest, the highest accuracy of 91% is obtained using logistic regression with ultra sound and symptom based attributes.

KEYWORDS: *Polycystic Ovary Syndrome .Machine Learning, Logistic Regression, Normalization, Neural Networks, Random Forest*

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