VI. RECOMMENDATION

For the next research can be done by increasing the training data. The more training data used it will increase the accuracy and accuracy of the system in recognizing testing data and periodic evaluation needs to be done to improve machine learning capabilities in predicting pregnancy complications.

ACKNOWLEDGMENT

We are grateful to Ministry of Health of Indonesia for study funding. Thank you very much to Budi Utomo for his support and assistance acknowledgments.

REFERENCES

- [1] M. Khaskheli, S. Baloch and A. Baloch, "Risk Factors in Early Pregnancy Complication," *Journal of the College of Physicians and Surgeons-*, 2010.
- [2] F. Gaccioli, S. Lager, U. Sovio and G. Smith, "The pregnancy outcome prediction (POP) study: Investigating the relationship between serial prenatal ultrasonography, biomarkers, placental phenotype and adverse pregnancy outcomes," *US National Library of Medicine National Institutes of Health*, vol. 59, pp. 17-25, 2017.
- [3] Kemenkes, "Peraturan Menteri Kesehatan Republik Indonesia No. 2562/MENKES/PER/XII/2011 Tentang Petunjuk Teknis Jaminan Persalinan," Kemenkes , Jakarta, 2011.
- [4] K. Ndiaye, E. Portillo, D. Ouedraogo and A. Mobley, "High-Risk Advanced Maternal Age and High Parity Pregnancy: Tackling a Neglected Need Through Formative Research and Action," *Global Health: Science and Practice*, vol. 6, no. 2, 2018.
- [5] J. T. Queenan, C. Y. Spong and C. J. Lockwood, Management of High-Risk Pregnancy: An Evidence Based Approach, Blackwell, 2016.
- [6] E. L. Arrieta, J. C. M. Santos and W. Caicedo, "Early Prediction of Severe Maternal Morbidity Using Machine Learning Techniques," *IBERAMIA*, pp. 1-12, 2016.
- [7] M. J. Hasan, Z. Ahmed and Y. Arafat, "Mobile Application Can Be an Effective Tool for Reduction of Maternal Mortality," *International Journal of Perceptions in Public Health*, vol. 1, no. 2, pp. 92-94, 2017.
- [8] S. Gollapudi, Practical Machine Learning, Mumbai: Packt Publishing Ltd., 2016.
- [9] S. Sardjoko, "Pengarusutamaan Kesehatan Dalam Sustainable Development Goals (SDGs)," Bappenas, Jakarta, 2017.
- [10] Supas, "Profil Penduduk Indonesia Hasil Supas 2015," BPS, Jakarta, 2015.
- [11] WHO, "World Health Organization," 16 February 2018. [Online]. Available: https://www.who.int/news-room/fact-sheets/detail/maternal-mortality. [Accessed 10 March 2019].

AUTHORS

First Author – Khansa AN Johim Str.Keb., MPH student in Health Informatics of Department of Biostatistics and Population Studies Faculty of Public Health Universitas Indonesia, email address: khansa.azmi71@ui.ac.id **Second Author** – Prof.dr.Budi Utomo MPH., Ph.D, lecturer of Faculty of Public Health Universitas Indonesia

Correspondence Author – Khansa AN Johim Str.Keb., MPH student in Health Informatics of Department of Biostatistics and Population Studies Faculty of Public Health Universitas Indonesia, email address: khansa.azmi71@ui.ac.id contact number: +6281 136 010 92

http://dx.doi.org/10.29322/IJSRP.9.07.2019.p9151 www.ijsrp.org