

Blood is a type of fluid transports it contains oxygen and is classified as a connective tissue that transports other components due to its matrix. We all know that blood is important because it not only transports but also provides oxygen to the tissues However; it also provides oxygen to the tissues via the vascular system and heart. Only 8% of an adult's volume—470ml/person, on average—is donated as blood. The Online Blood Bank system is a sincere effort to make all processes pertaining to receiving and donating blood easier to navigate. It is a website-based system to store, analyze, retrieve the information about blood bank. The website allows users to conveniently access details about blood type availability in different blood banks throughout the state, blood donation dates, and the choice to arrange for a blood donation that is voluntary. This paper we proposed to create the website using PyCharm platform. And we connect our website with other transport website like taxi aggregator and logistic service provider etc. Due to the lack of communication between the donor and patients, we propose a system that acts like bridge between blood bank and hospitals.

Keywords: Blood, Website, Donor, Blood bank, PyCharm.

DIAGNOIS OF GENETIC DISEASES USING ARTIFICIAL INTELLIGENCE

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A genetic disorder is a condition that is entirely or in part caused by a change in the normal DNA sequence. Genetic disorders can be caused by one gene mutation, many gene mutations, a confluence of environmental factors and genetic abnormalities, or chromosomal damage. Genetic diseases can result in health issues that are so severe they make living impossible. In the most extreme situations, these ailments may result in the miscarriage of the embryo or foetus that is afflicted. In some cases, impacted new-borns could have maternal deaths or pass very soon after birth. A hereditary condition is sometimes difficult to avoid. One can discover more about your risk, though, by receiving genetic counselling and testing. The possibility of transferring certain ailments to offspring can also be shown by this. Shepherd algorithm is used for early prediction of genetic disease, a multifaceted deep learning algorithm for diagnosing genetic diseases. By integrating peripheral understanding of identified gene, phenotype, patient's Electronic Health Records(EHR) and disease associations via knowledge-guided deep learning techniques. Without using any actual labelled data, Shepherd solely trains on simulated patients with genetic diseases to achieve label-efficient training. This method gets around the limitations of supervised learning. It aids medical professionals in determining whether a patient has a genetic disease or not.

Keywords: Genetic diseases, Electronic Health Records, Shepherd, Deep learning.