A blue diamond shaped logo with a computer on it

Description automatically generatedA logo of an university

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**On-the-Go Blood Diagnostics: Developing a Mobile App for Automated Hematological Analysis Using Artificial Intelligence**

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In the realm of technological innovation, artificial intelligence (AI) has emerged as a transformative force, reshaping the fabric of our everyday lives. From dawn until dusk, our daily routines are considerably influenced by AI technology. Artificial intelligence is based on the principle that human intelligence can be defined in a way that a machine can easily mimic it and execute tasks, from the most simple to those that are even more complex. The goals of artificial intelligence include mimicking human cognitive activity[1]. Upon awakening, a prevalent habit involves reaching for either a mobile phone or laptop, thereby initiating the day. This behavior has become ingrained and holds integral importance in shaping our decision-making processes, planning activities, and seeking information. From virtual assistants streamlining daily tasks to predictive algorithms enhancing online experiences, AI has become an integral part of the human experience. One of the most profound arenas where AI has made significant strides is in the field of medicine, marking a paradigm shift in possibilities and advancements. Artificial Intelligence has revolutionized how doctors’ and surgeons’ work during surgery and diagnostics, and by the use of micromechanics and camera vision, health specialist can access and perform surgery even in the most intricate and tiniest part and organs of the human body. This research aims to comprehensively examine the multifaceted impact of artificial intelligence on human existence, focusing particularly on its revolutionary contributions to the medical domain. Navigating the intricate interplay between AI and humanity, this study delves into the ways in which AI technologies have not only revolutionized medical research and diagnosis but have also become indispensable tools in the hands of healthcare professionals. This fundamental alteration in the landscape of patient care points towards a future where precision, efficiency, and personalized medicine converge for the betterment of human health.