**A PROMISING TOOL OF FUTURE DENTISTRY- ARTIFICAL INTELLIGENCE**

**ABSTRACT:**

 In modern dentistry, AI is no longer misconception now, but it is the future of dentistry. This technology is used in dentistry for a number of applications. The concept of AI is based on the machine learning and is a promising tool with salient features of accuracy and efficiency. In dentistry it is used as a learning tool for accurate diagnosis of disease, establishing the treatment protocol and understanding the disease prognosis in a better way. AI has been adopted in all the branches of dentistry such as Periodontics, orthodontics, oral surgery, oral medicine, prosthodontics and endodontics. It is also a valuable tool to assist the dental professionals at the various stages of disease progression. AI can be used in dental treatment planning, image analysis, and record keeping. In addition, it can also be useful in analysing patient’s history and medications. Artificial Intelligence has risen to prominence as a huge phenomenon. It will continue to be a technological pioneer for the foreseeable future, based on its current growth. Artificial intelligence techniques and applications are still in use, constantly developing and giving hope for the future. Artificial intelligence can help make considerable advances in providing better health care to patients, but it will never be able to replace human knowledge, skills, or judgement.

The objective of this paper presentation is to give an overview of AI and discuss the application of this newer technology in dentistry and dental eduction.