



## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Course Code & Name : **20CS7503 & DESIGN PROJECT 3**

Year / Semester : **IV / VII**

Section : **B**

Batch Number : **20**

Title of the Project : **EPITHELIUM DETECTION AI**

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### **ABSTRACT**

Epithelium Detection AI is an intelligent deep-learning-based system designed to support early identification and awareness of epithelium-related skin diseases, including melanoma, basal cell carcinoma, squamous cell carcinoma, and other clinically significant lesions. Early detection of such conditions is critical, as delayed diagnosis often leads to increased morbidity, higher treatment costs, and preventable mortality. However, conventional dermatological screening relies heavily on specialist expertise, is prone to subjectivity, and is often inaccessible in rural or resource-constrained environments. In addition to automated image-based diagnosis, the system integrates an educational FAQ chatbot that employs natural language processing to provide users with reliable, easy-to-understand information related to skin health, symptoms, and prevention strategies.

**Keywords:** Artificial Intelligence (AI), Skin Lesion Classification, Epithelium Detection, Deep Learning, Rule-Based Chatbot, Natural Language Processing (NLP), Skin Disease Awareness.