

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341050292 A

(19) INDIA

(22) Date of filing of Application :26/07/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : Monkeypox Detection Using Modified VGG16 and Custom CNN Model

(51) International classification :G06N0003080000, G06N0003040000, A61B0005000000,  
G06K0009620000, G16H0050200000  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to :NA  
Application Number :NA  
Filing Date :NA  
(62) Divisional to Application :NA  
Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)St. Martin's Engineering College**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**Name of Applicant : NA**  
**Address of Applicant : NA**  
(72)Name of Inventor :  
**1)Naga Venkateshwara Rao K Assistant Professor, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**2)P. Kiranmayee Assistant Professor, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**3)G Niharika Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**4)Neelisetty Lakshmi Sravya Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**5)Adepu Sai Sri Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**6)Macha Preethi Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**7)Kothuru Monika Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**8)Vadla Sai Charan Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**9)Kothagadi Srikanth, Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**10)Kukutapu Sreya, Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**11)Margam Vinay Kumar, Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**12)Kaverigari Ashritha, Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**13)Bobbala Abhinaya Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**14)G Bhavana Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
-----  
**15)Pedapanga Sai Deekshith Student, ECE**  
Address of Applicant :St.Martin's Engineering College, Dhulapally Kompally Secunderabad -----  
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(57) Abstract :

The recent Monkey-pox outbreak has become a public health concern due to its rapid spread in more than 40 countries outside Africa. Clinical diagnosis of monkey-pox in an early stage is challenging due to its similarity with chickenpox and measles. In cases where the confirmatory PCR tests are not readily available, computer-assisted detection of monkey-pox lesions could be beneficial for surveillance and rapid identification of suspected cases. Deep learning methods have been found effective in the automated detection of skin lesions, provided that sufficient training examples are available. This work designs Custom CNN algorithm to predict monkey-pox disease. To deal with this disease for timely detection doctors can use this algorithm. The existing VGG16 gives low accuracy and the proposed custom CNN gives high accuracy. The Custom CNN model contains lesser layers as compared to VGG16, which resulted in lesser training complexity and losses.

No. of Pages : 12 No. of Claims : 4