

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141026740 A

(19) INDIA

(22) Date of filing of Application :16/06/2021

(43) Publication Date : 25/06/2021

(54) Title of the invention : PY- DIGITAL WRITING PAD (PYTHON BASED MOTION SENSING DIGITAL WRITING PAD)

(51) International classification	:G06F0003010000, G06K0009000000, G06Q0050200000, G09B0005140000, G09B0019000000	(71) Name of Applicant : 1) VIT-AP UNIVERSITY Address of Applicant :VIT-AP UNIVERSITY, BESIDE AP SECRETARIAT NEAR VIJAYAWADA ANDHRA PRADESH- INDIA 522 237 Andhra Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. SANTANU MANDAL
(33) Name of priority country	:NA	2)Mr. TATHAGET BANERJEE
(86) International Application No	:NA	3)Mr. AMANDEEP SHARMA
Filing Date	:NA	4)Ms. K CHARVI
(87) International Publication No	: NA	5)Ms. RASMIKA BILLA
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Our proposed project, Py-Digital writing pad is a hand motion sensor in simulation, implemented using Open source software and Python, a common infrastructure for computer vision applications and machine perception, transformer architecture and deep learning ideas. This whole project will fundamentally build algorithms that can be used to detect and recognize hand gesture alphanumerics and track an object as a pen without any requirement of a physical touch screen device. The software will implement this mechanism using python as a programming language and opencv as a platform. Taking inspiration from Digital India, a flagship programme of the Government of India with a vision to transform into a digitally empowered society and knowledge economy, we are developing our product to reach out to a wider range of audience at an affordable cost. This will not only help the schools and universities in rural areas, trying their best to provide quality education but also help students willing to use different modes and methods of learning. By the idea a student remotely with minimum expenditure can ask doubts by highlighting pre text and can use his normal non touch laptop or mobile phone as a motion sensing device. Online teaching learning process will be smoother keeping in mind the economic condition of the teachers and students of India and other countries.

No. of Pages : 12 No. of Claims : 6