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Artificial Intelligence and Agriculture: A Review

Harish Chandra Bharvey¹, Ramnivas Sharma²

10.18805/BKAP658

ABSTRACT

In this article, we will highlight the impact and application of Artificial Intelligence on Agriculture, along with the challenges in the adoption of Artificial Intelligence. Artificial Intelligence has become one of the most important technologies in every sector, including education, banking, robotics, agriculture, etc. In the agriculture sector, it is playing a very crucial role and it is transforming the agriculture industry. This article highlighted the application of Artificial Intelligence along with the challenges in the adoption of Artificial Intelligence and popular Artificial Intelligence start-ups used in agriculture. Today's agriculture system has reached a different level due to technology like Artificial Intelligence and Robotics etc. This article highlights Artificial Intelligence with its applications and merits.

Key words: Agriculture, Artificial intelligence, Farming, Plantix, Robotics, Technology.

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cī) eūkk ųkfvIQf" k; y bā/sytd Aī½ ds dkj .k vkt dh —f'k 0; oLFk , d vyx Lrj ij igp xbz gā —f=e cī) eūkk ųkfvIQf" k; y bā/sytd Aī½ usQl y mRi knu vīś okLrfod l e; dh fuxjkuh] dVkb] ēl d d j .k vīś foi .ku ea l d k j fd; k gā fofHku gkb&Vad dh; Wj&vk/kfjr c. kfy; k fofHku

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jkskA VDI

tfVy dk; kAdksdjusdsfy, jkskA VDI dk 0; ki d : i l s fofHkUu {ks=ka ea mi ; ks fd; k tk jgk gš e[; : i l s fofuekZk {ks= ea vkt dy} fofHkUu –f=e cf) eÜkk %/kfVfQf" k; y bA/sytA] Ail½ dA fu; ka –f'k {ks= eafu; kstr gksusdsfy, jkskA fodfl r dj jgh gA bu –f=e cf) eÜkk %/kfVfQf" k; y bA/sytA] Ail½ jkskA/ dks bl rjg l s

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jks funku

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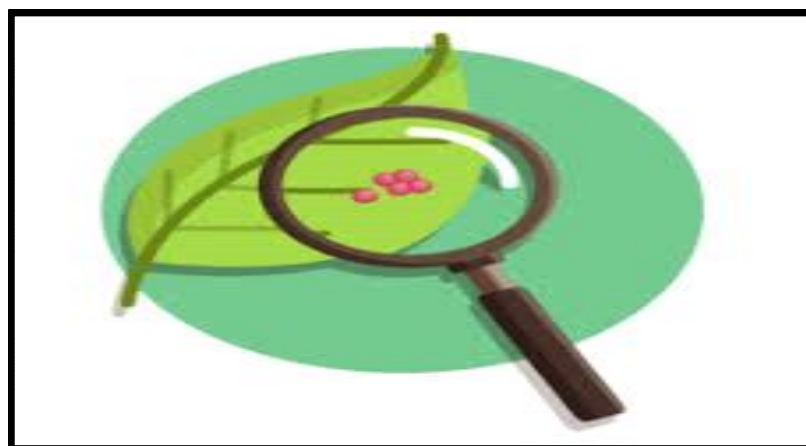
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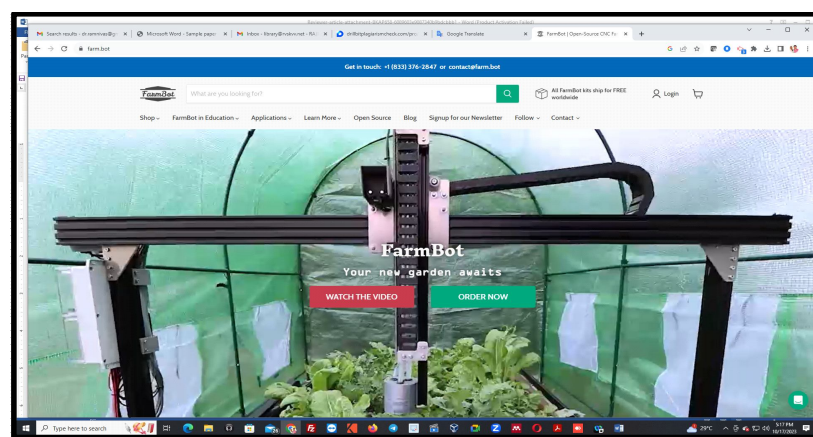
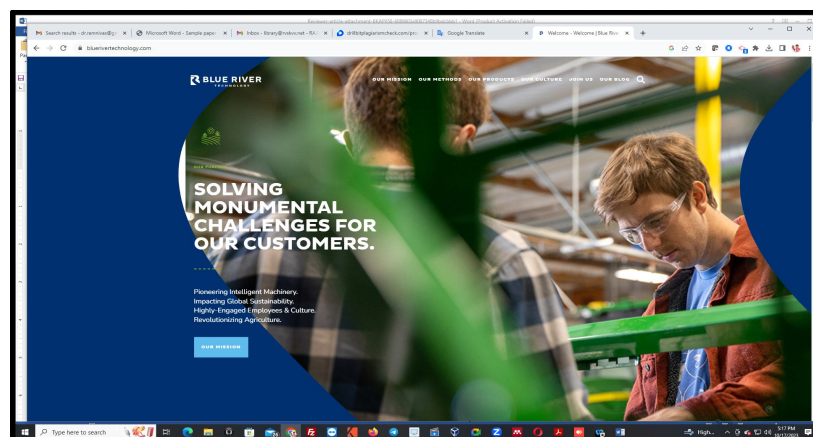
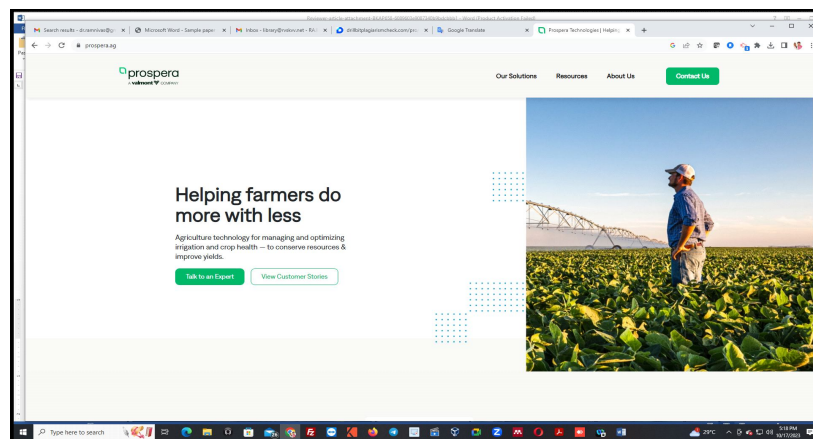
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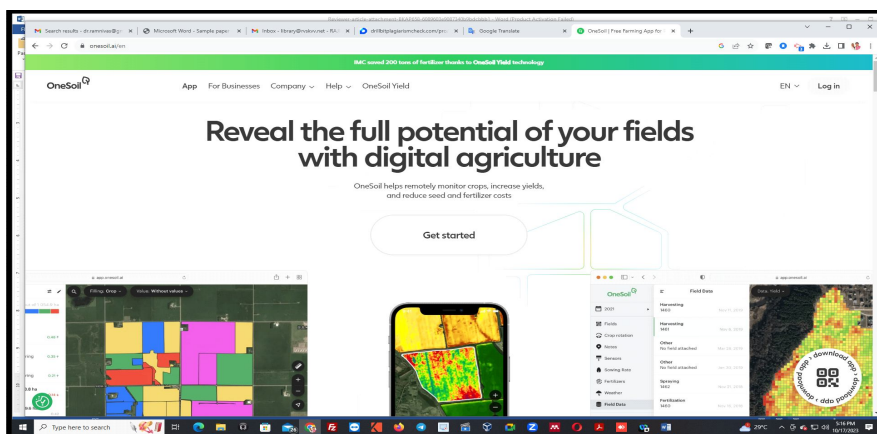
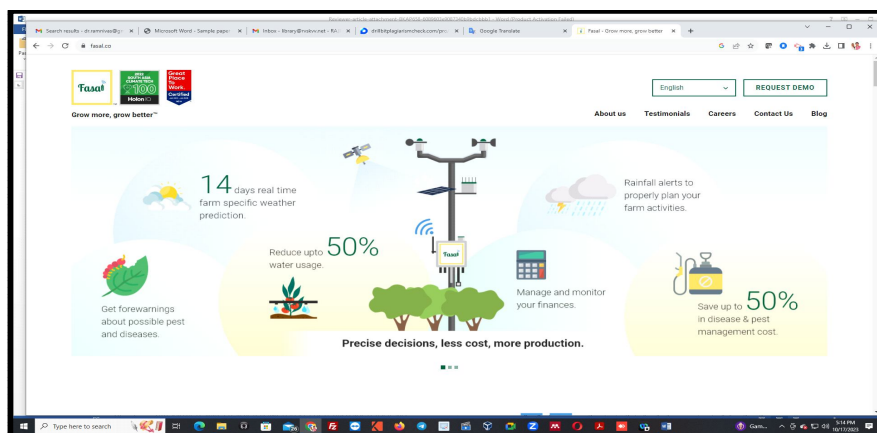
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—f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½&I {ke mi dj. kka dk mi ; kx djdsI Vhd [krh djusI sdfI kuka dksde I ð k/kuka v½ ylxr dsl kfk vf/kd QI yamxkuseenn feyrh gA —f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½fdI kuka dksokLrfod I e; dh var—I'V çnku djrk gS tksmÜga [krh ds çR; sd pj.k eamfpr fu.kz yuseal {ke cukrk gA bl I gh fu.kz I smRi knkav½ jI k; ukadk de uplI ku gkrk gSv½ I e; v½ /ku dk dñky mi ; kx gkrk gA bl ds vykokI ; g fdl kuka dksmu fo"ksk {ks-kadh igpku djusdh Hkh vuøfr nsk gSftl gafi pkbI mojdñj.k v½ dhVuk"kd mi pkj dh vko"; drk gkrh gSftl I sQI y ij jI k; ukadsvR; f/kd mi ; kx I s cpk tk I drk gA bl ds ifj.kkeLo: i "kkdukf"K; ka dk de mi ; kx gkrk gS QI y dh xqkoÜkk cgrj gkrh gSv½ de I ð k/kuka dsl kfk mPp yHk gkrk gA

Je dh deh dksde djuk

—f'k m | kx eaJfedkadh deh dh I eL; k geškk I sjgh gA —f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½bl I eL; k dks [krh eaLopkyu dsl kfk gy dj I drk gA —f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½v½ Lopkyu dsl kfkI fdl ku vf/kd yxkadsfcuk dke dj I drsg½ v½ dñ mnkj.k pkyd jfgr VDVjI LekVZfI pkb½v½ mojd ç.kkyhI LekVZ LçbxI ofVdy Qkfež I ,¶Voš j v½ dVkbZ ds fy, —f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½& vk/kkfjr jkskv gA —f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½& pkfyr e"khua v½ mi dj.k ekuo QkegM dh ryuk ea cgr rst v½ I Vhd gA

—f'k ea—f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½ dh pqlr ; ka

fVdkA [krh dsfy, —f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½ dsQk; nsn[kdj bl rduhd dksyxkwdjuk gj fdl ku ds fy, , d rkfdl dne yx I drk gA gkykfdI vHkh Hkh dñ xlkj pqlr ; k; gS tksI Hkh tkursg½ tksbl çdkj g%

e"khukadsl kfk ifjprrk dk vHko

; | fi —f'k ea—f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½ dk mi ; kx djusdscgr I kjsyHk g½ fQj Hkh nñu; k Hkj eaylx —f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½&I {ke I ek/kkukav½ mi dj.kkadsmi ; kx I sijfpr ugha gA eñka dks gy djus ds fy,] —f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½ dñ fu; ka dks fdl kuka dks cñu; knh mi dj.k

çnku djuk pkfg, v½ , d ckj tc osmul sijfpr gks tk, , rksmÜgamÜur e"khua çnku djA

mHjrh çkš kxfid ; kadsl kfk vuHko dh deh

fodkl "lhy nškkadsfy, —f'k ea—f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½ v½ mHjrh çkš kxfid ; ka dks viukuk , d pqlr hi wZdk; ZgkI drk gA , d h rduhdadksmu {ks-kæcpuk cgr eñ"dy gksk tgka, d h —f'k rduhd dk mi ; kx ugha fd; k tk jgk gA , d s {ks-kæabu rduhdadk mi ; kx djus dsfy, fdl kuka dks fdl h dh enn dh t: jr gkrh gA

xkš uh; rk v½ I j {kk eñs

pñd —f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½ dk mi ; kx djusdsfy, vHkh Hkh dkbZLi'V fu; e v½ uhr; ka ugha g½ ; g fofHku dkuuh eñka dks mBk I drk gA bl ds vykokI I ,¶Voš j v½ b¼/tytd ds mi ; kx ds dkj.k dñ xkš uh; rk v½ I j {kk eñs Hkh gksI drsg½ tš sI kbcj geys v½ M¼k yhdA ; sI Hkh eñs [kr ekfydka ; k fdl kuka ds fy, , d cMh I eL; k iñk dj I drsgA

fu'd'k

[krh ea—f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½ dk Hkfo'; dkQh gn rd —f=e cñ) eÜkk ¼/kfVIOf"K; y b¼/tytd] A1½ I ek/kkuka dks viukus ij fuHk½ djrk gA gkykñd dñ cMh iñkus ij "kkš py jgs g½ v½ dñ , flydšku igysI sgh çktkj eag½ fQj Hkh —f'k eam | kx de gA bl dsvykokI [krh eafdl kuka dsl keusvkusokyh , d okLrfod pqlr h dks gy djus ds fy, Hkfo'; dgus okyk I ek/kku rš kj djuk vHkh Hkh çkjñHkd pj.k ea gA

I uHkZ

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