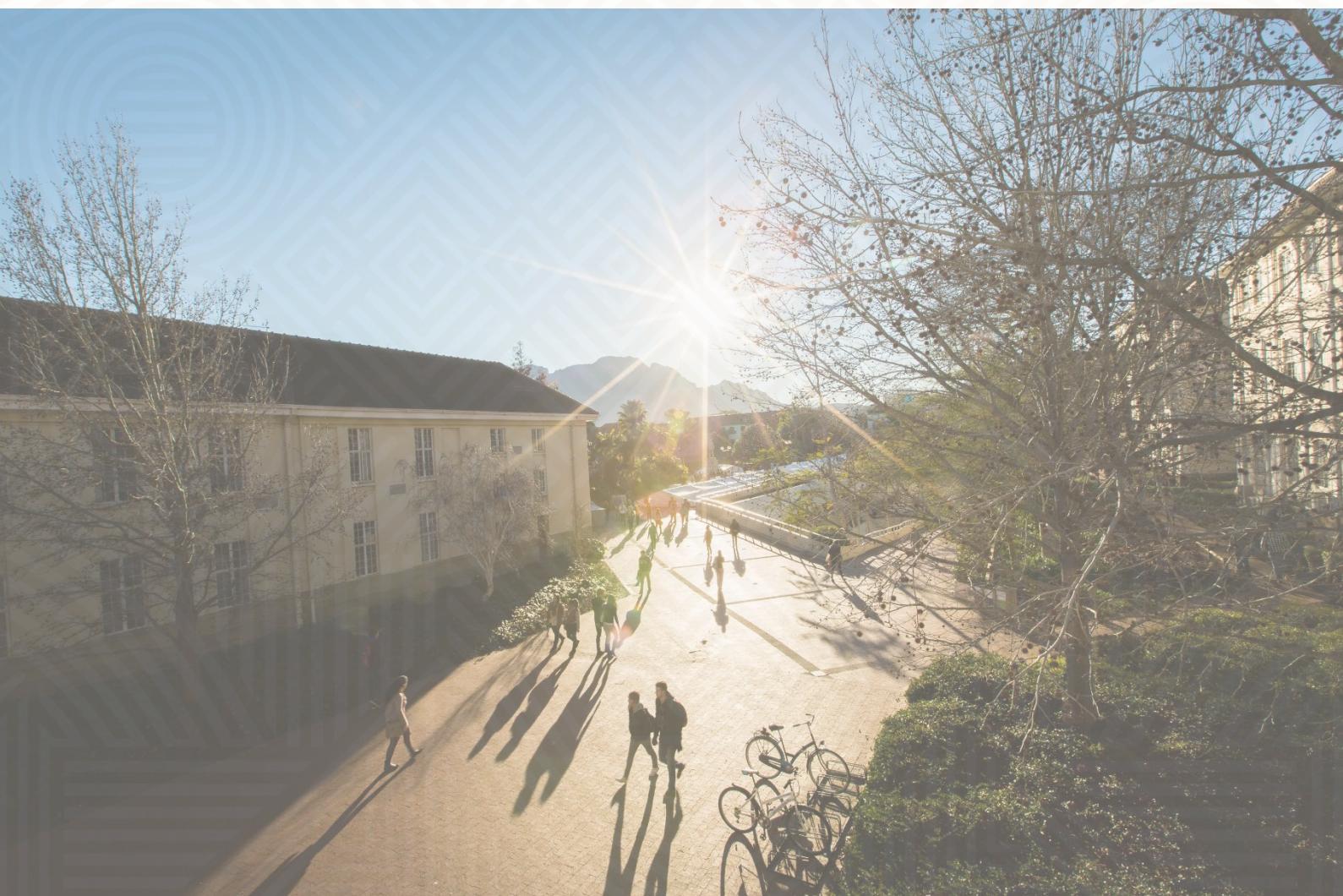# UkuSetyenziswa ngokwaMkelekileyo kweziXhobo zokuFumana iiNkcukacha kuPhando kunye nokuFundisa-ukuFunda-noVavanyo

INgxelo yeSimo yeYunivesithi yaseStellenbosch

forward together
sonke siya phambili
saam vorentoe

Ingxelo yeSimo yeYunivesithi yaseStellenbosch:

Ukusetyenziswa kweziXhobo zokuFumana Iinkcukacha kuPhando kunye nokuFundisa-ukuFunda-kuVavanyo

Uhlobo loXwebhu:	Ingxelo yeMeko
Injongo:	Le Ngxelo yeSimo ibonelela ngemiqathango esisikhokelo yokusetyenziswa kwe-AI kuphando kunye novavanyo lokufunda-ngokufundisa, inika uxanduva lokuphendula kwaye inxibelelanisa namaxwebhu athile olawulo ukwenza ulawulo olufunekayo.
Wamkelwe:	IsiGqeba soLawulo saseSU
Umhla wokuVunywa:	22 kweyeNkanga ka2024
Umhla wokuMiselwa:	1 kweyoMqungu ka2025
UMhla woHlaziyo Olulandelayo:	Uphononongo lwangaphakathi rhoqo ngonyaka, kwaye luphononongwa ngokusesikweni rhoqo emva kweminyaka emithathu okanye ngaphambili ukuba kubonwa kuyimfuneko ngokusekelwe kuphononongo lwangaphakathi.
UMhla woHlaziyo lwangaPhambili:	Awukho
UMnini:	USekela weSekela-Tshansila: kuPhando, uYilo lwezinto eziNtsha neZifundo zabaneziDanga kunye neSekela leSekela Ngqonyela: ukuFunda nokuFundisa
UMlondolozi:	UMlawuli oyiNtloko: kuPhando noYilo lwezinto eziNtsha UMlawuli oyiNtloko: ukuPhuculwa kokuFunda nokuFundisa
Amagama angundoqo:	IziXhobo zokuFumana Iinkcukacha, uphando, ukufundisa, ukufunda, uvavanyo, ukuziphatha, imiqathango
Ukusebenza:	Inguqulelo yesiNgesi yale Ngxelo yeSimo yeyona nguqulelo isebenzayo, ukuze inguqulelo yesiAfrikansi neyesiXhosa zibe zeziguqulelweyo.

Amaxwebhu olawulo aseSU ayafumaneka apha
www.sun.ac.za/policies

IYunivesith yaseStellenbosch (iSU) izibophelele ngokungagungqiyo ekuveliseni ulwazi, uphando kunye noyilo lwezinto ezintsha, ukukhonza uluntu, nasekusebenziseni iinqobo eziphambili (ezo zaziwa ngokuba bubulungisa, intlonipho, uvelwano, ubulungisa, ugqweso nokuba nokuthatha uxanduva) kuyo yonke imisebenzi yayo. Sibonelela ngeziko elikumgangatho wehlabathi lokufunda nophuhliso, elibaluleke kakhulu kwihlabathi, kodwa elisekelwe ekuphakanyisweni nasekuguquleni uluntu lwengingqi yethu. Ngoku kuzibophelela, siyaluvuma uxanduva lweziko lokubonelela abasebenzi kunye nabafundi ngemigaqo efunekayo kunye nezikhokelo zokujonga ifuthe elinzulu lophuhliso kunye nokusetyenziswa kweziXhobo zokuFumana (iAI) kwaye ngakumbi, iAI ezenzekelayo, kuphando kunye nokufundisa-ukufunda-uvavanyo, kunye nokugcina imiqathango yokuziphatha yokukhuthaza ukuziphatha okunenkathalo kulo lonke uphando kunye nokufundisa-ukufunda-uvavanyo lwemisebenzi eyenziwa phantsi kwenkxaso SU.

Kuyavunywa ngokubanzi ukuba iAI ibonelela ngamathuba angazange abonwe ngaphambili kunye neenzuzo zokuguqula uphando lwezenzululwazi kwaye isebenze njengesixhobo esixhasayo kubasebenzi nabafundi njengenxalenye yophando lwabo kunye nemisebenzi yokufundisa-ukufunda-novavanyp. Kuyavunywa ukuba iAI inokudlala indima yenkxaso, ngakumbi kwimeko yezoqoqosho olukhulayo nalapho kukho imiqobo yolwimi kwaye ibonelele ngamathuba okufunda afanelekileyo. Nangona kunjalo, kubalulekile ukuvuma uluhlu lwemingeni yokuziphatha enokubakho kunye nemingcipheko ekhoyo xa usebenzisa iAI kule misebenzi. Ngenxa yoko, uluhlu lwemiqathango emalunga nendlela yokusebenzisa izixhobo zeAI ngokuziphatha nangentembeko ukuxhasa uphando kunye novavanyo lokufundisa-ukufunda ibalulekile. Ngenxa yobume beAI obuguquguqukayo, kuyaqondwa ukuba kukho umda kwinqanaba apho iziko linokubonelela ngezikhokelo kunye neenkqubo ezibandakanya zonke iimeko ezinokwenzeka zezi zixhobo kunye nokusetyenziswa kwazo. Le miqathango isebenza kwiizixhobo zeAI kunye -nezixhobo ezisetyenziswa kuphando nokufundisa-ukufunda-uvavanyo.

Ulawulo:

Njengeziko elinoxanduva, ukulawulwa kokusetyenziswa ngendlela eyiyo kweenkqubo zeAI kunye nezixhobo zokuxhasa iinzame zemfundo - zombini uphando kunye ukufundisa-ukufunda-novavanyo zibalulekile. Ngenxa yeenkalo ezahlukeneyo zophando kunye neenkalo zokufunda-ukufundisa-novavanyo kunye naphakathi kwezifundo, ubonelelo lwezakhiwo zokusebenza, izikhokelo, iintshukumo zokubeka iliso, amalungiselelo okhuseleko kunye namaxwebhu olawulo ajongana neeyantlukwano zeemeko ezahlukeneyo, ziya kubonelelwa ngokwahlukeneyo. amaxwebhu axhasayo, aya kuhlaziywa amaxesha ngamaxesha njengoko kufuneka. IFaculty inokubonelela ngezikhokelo ezongezelelweyo kunye nezikhokelo zokuxhasa ukusetyenziswa kweAI kuqeqesho oluthile. Le Ngxelo yeSimo ibonelela ngemiqathangp esisikhokelo yokusetyenziswa kweAI kuphando kunye nokufundisa-ukufunda-novavanyo, inika uxanduva lokuphendula kwaye inxibelelanisa namaxwebhu athile olawulo ukwenza ulawulo olufanelekilyo Ukuba ukusetyenziswa ngokungekho sikweni kweAI kukhokelela ekukopeni, ekuziphatheni kakubi ngokweenqobo ezisesikweni, ekwaphulweni kwepropathi yobungqondi njl.njl, iya kujongwana nayo ngokwemigaqo yoxwebhu lolawulo olufanelekileyo olulawula umcimbi othile.

Injongo:

Ngenxa yoku kungasentla, le Ngxelo yeSimo imisela ukubonelela ngeseti yemigaqo kubasebenzi nabafundi malunga nokudityaniswa kweAI kuphando kunye nokufundisa-ukufunda-novavanyo kwaye igxininisa ukubaluleka kwemfezeko ezifundweni kunye nokuthatha uxanduva nokuba noxanduva lokuphendula ngeenqobo ezisesikweni. ukuqhuba kuphando nokufundisa-ukufunda-novavanyo. Le miqathango ithathela kwizakhelo nezikhokelo ezivela kumaziko aphambili kazwelonke nawakwamanye amazwe kwaye kufuneka ifundwe kwaye iqwalaselwe ngokwemeko yamanye amaxwebhu olawulo afanelekileyo. Awona maxwebhu olawulo afanelekileyo adweliswe kwiCandelo A.

Iinkcazelo:

Iinkqubo zeAI: "Iinkqubo zeAI" zibhekisela ngokubanzi kuyo nayiphi na inkqubo, ezolwakhiwo kubuxhakaxhaka, i-algorithm, isakhelo, iteknoloji, njl., ngokusekelwe kwiingcamango zeAI kwaye zisetyenziselwa uphando okanye izicelo zeAI.

Umzekelo: Abaguquli luhlobo lwenkqubo yeAI esetyenziselwa ukusetyenzwa kolwimi lwendalo kunye nokuhlelwa kwemifanekiso.

Izixhobo zeAI: "Izixhobo zeAI" zibhekisa ngakumbi kubuxhakaxhaka bekhompyutha, amathala eencwadi, iipakethe okanye ii-apps ezisekelwe kwiinkqubo zeAI ezisebenzisa usetyenziso oluthile lwezinye zezi nkqubo.

Umzekelo: IChatGPT sisixhobo seAI esisekelwe kwiinguqu ezenzelwe ukuvelisa umbhalo.

Lo mahluko awucaci kakuhle, njengoko izixhobo zeAI zinokuqwalaselwa njengeenkqubo zeAI, nangona ingezizo zonke iinkqubo zeAI kufuneka zibizwe ngokuba zizixhobo zeAI. Igama elithi "izixhobo zeAI" lisetyenziswa kakhulu xa umntu ejongene neenkqubo ezithile eziphantsi kweenkqubo zeAI.

Umzekelo: Iimoto eziziqhubayo luhlobo lwenkqubo yeAI, enzima kakhulu kwaye ibanzi ngokwezobuchwepheshe ukuba ibizwe ngokuba sisixhobo seAI.

I-AI ezenzekelayo: "Iinkqubo zeAI ezenzekelayo**"** ziinkqubo zeAI ezikwazi ukuvelisa umbhalo, imifanekiso, iividiyo, kunye nezinye iziphumo ngokukhupha idatha yazo yoqeqesho.

Umzekelo: Imizekelo yeenkqubo ezakhiwe kwiinkqubo ezikumila njalo ziquka iChatGPT, iCopilot, kunye neMidjourney.

IMiqathango:

I-SU yamkela le miqathango ilandelayo:

I. **Ukuvuleleka, ukungaFihli, uXanduva, uXanduva lokuPhendula, ukuThembeka, ukuBandakanya kunye neyaNtlukwano:**

   a. **Ukuvuleleka:**

      Uphando: Sikhuthaza ukukhuthazwa kokuvuleleka ekusebenziseni iinkqubo zeAI kunye nezixhobo kwiinkqubo zophando, kunye nokwabelana ngedatha, ikhowudi kunye neendlela zokuququzelela ukuveliswa kwakhona, ukusebenzisana kunye nokuhlolisisa.

      UkuFundisa-ukuFunda-noVavanyo: Sikwakhuthaza ngakumbi ukukhuthazwa kokuvuleleka ekusebenziseni iinkqubo zeAI kunye nezixhobo kuyo nayiphi na imisebenzi yokufundisa-ukufunda, kubandakanywa neemvavanyo.

   b. **UkungaFihli:**

      Uphando: Ukungafihli kubalulekile ukuqinisekisa ukuba ukuthembeka kumalinge ophando akutshabalali. Ukusetyenziswa kweAI kulo naluphi na uhlobo kufuneka kubhengezwe ngexesha lezobunzululwazi kunye neenkqubo zokuphononongwa imigaqo yokuziphatha (apho kufanelekileyo) kwaye icaciswe ngokucacileyo kuyo nayiphi na imisebenzi yophando (umzekelo, uyilo lophando, iinkqubo, iindlela zokwenza izinto, iingxelo, iimbalo zophando, iithisisi, iimbapasho, inkomfa/ucweyo/intlanganiso unikezelo) kunye neziphumo (nokuba sisixande okanye siphuma kwisiphumo esiveliswe yiAI), ngokufanayo noko kulindelekileyo xa kusetyenziswa ezinye iisoftware, izixhobo okanye iindlela. Iinkcukacha malunga neenkqubo zeAI okanye izixhobo ezisetyenzisiweyo, ubungakanani bokusetyenziswa kwazo, kunye nohlobo lwegalelo kuphando kufuneka zibhengezwe ngokusemthethweni. Qaphela ukuba imizi yoshicilelo yeejenali okanye iincwadi ezigunyazisiweyo zinokuba neemfuno ezithe ngqo ngakumbi kwimigaqonkqubo yeAI.

      UkuFundisa-ukuFunda-noVavanyo: Umgaqonkqubo woVavanyo weSU ukhuthaza ukungafihli, kunye "nabafundi bafumana ulwazi olucacileyo malunga neemfuneko zovavanyo

apho ukusebenza kwabo kuya kulinganiswa ngamathuba ahlukeneyo ovavanyo kunye neendlela zovavanyo". Ekungenisweni kwemisebenzi yovavanyo, ukuchaza ukuba ngaba ukusetyenziswa kweAI kuvumelekile kunye nenkqubo yokusetyenziswa kweAI efanelekileyo kunokuncedisa ukukhusela abafundi kwisenzo esibi esingesiyo ngabom kunye nokunceda kwiimeko ezikrokrelekayo zokwenza ububi (ukuba umsebenzi okanye iAlgiarism.[1]). Umgaqo omiselweyo ngexesha lovavanyo: Umxholo owenziwe yiAI awunakwenza inxalenye enkulu yalo naluphi na uvavanyo okanye nayiphi na inxalenye yovavanyo ngaphandle kokuba iboniswe ngokucacileyo njengoko kuvunyelwe.

c. **Uxanduva:**

I-SU ikhuthaza uphando olunoxanduva kwaye igcina imfezeko kwimfundo kuyo yonke imisebenzi yayo. Isakhono sokucinga nzulu sabasebenzi nabafundi sihlala siyinxalenye ebalulekileyo yenkqubo yokufunda kwaye kufuneka sihlale sinjalo. Ngenxa yoko, iSU igxininisa ukubaluleka koyilo lophando olujoliswe ebantwini, ukucinga okunzulu, uvavanyo lomngcipheko, imvelaphi kunye novavanyo oluqhubekayo lwemveliso yeenkqubo zeAI. Kwimeko yeenkqubo zeAI ezenzekelayo, abasebenzi kunye nabafundi kufuneka bathathe uxanduva oluphelleleyo lokuhlalutya kunye nokuqinisekisa ulwazi kunye nokukhankanya ababhali bokuqala, ngokwemigaqo yokuchaphula efanelekileyo. Kufuneka kuqatshelwe ukuba ngelixa ezinye izixhobo zeAI zinokubonelela ngemithombo, le mithombo isafuna ukuqinisekiswa ukuze kuqinisekiswe ukuchaneka, umgangatho kunye nokufaneleka (okt ayizizo zonke iiwebhusayithi ezamkelekileyo njengemithombo kumxholo wezemfundo). Oku kubaluleke ngakumbi xa kujongwa ukuthambekela kwezinye izixhobo zeAI ezivelisayo "zokubona" okanye ukwenza iimbekiselo.

d. **Uxanduva lokuPhendula:**

Njengoko izixhobo zeAI azihlangabezani neemfuno zobubhali okanye ukuqulunqa ngenxa yokungabikho kwegalelo lengqondo yomntu kunye noxanduva lokuphendula, abasebenzi kunye nabafundi bahlala bephendula ngokuchaneka, ukunyaniseka kunye nokuqala komsebenzi wabo, okubandakanya nawuphi na umxholo owenziwe ngokusetyenziswa kweAI. izixhobo. Luxanduva lombhali okanye umqulunqi womsebenzi okanye imveliso ukuqinisekisa ukuba umsebenzi wabo uchanekile kwaye awunakwenzeka ukubangela ingozi, oko kukuthi, ngokusabalalisa ulwazi lobuxoki, ukusetyenziswa kakubi okanye ukwabelana ngolwazi lomntu siqu. Izixhobo ezizenzekelayo zeAI zisenokungadweliswa njengezo zombhali kuwo nawuphi na umsebenzi wokufunda. Ukusetyenziswa kwezixhobo ezinjalo kunokubandakanywa kwicandelo leMibulelo lemibhalongqangi engeniswe ukuba ihlaziywe kwiijenali okanye ngokuhambelana nezikhokelo ezithile zejenali.

e. **UkuBandakanya kunye neyaNtlukwano:** Abasebenzi kunye nabafundi abasebenzisa kwaye baphuhlise iinkqubo zeAI okanye izixhobo zophando okanye iinkqubo zobuxhakaxhaka, kufuneka bakhumbule ukuba nokwenzeka kokuthambekela (okufana nesini, uhlanga, umbono wehlabathi, kunye nezinye iintlobo zocalucalulo) kwiinkqubo ezinjalo kwaye kufuneka bathathe amanyathelo okunciphisa kunye nokujongana nokuthambekela okunokwenzeka. Ngokufanayo, abasebenzi nabafundi abasebenzisa iinkquboezivelisa iAI kufuneka baqaphele ukuthambekela (kubandakanya ubuhlanga, isini, imbono yehlabathi, kunye nezinye iintloko zocalucalulo) olukhoyo kwiinkqubo ezinjalo kwaye bathathe amanyathelo okulungisa loo mkhethe kwiziphumo zenkqubo. Kulo mba, iSebe lezeMpilo leSizwe ligxininisa ukuba amaqela ahlukeneyo achaphazelekayo okanye amaqela athatha inxaxheba kufuneka athathe inxaxheba ngokusebenzayo kuyilo kunye nezigaba zokuvavanya ukuqinisekisa ubulungisa kunye nokumelwa kunye nokuba i-algorithms ivavanyelwe ukuthambekela kunye nokungafani.

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2. **Intembeko kwezeMfundo/nakwiNzululwazi:**

   a. **Ububhalingqangi kunye nokuBiwa koMsebenzi:**

   Uphando: Uphando kufuneka lube ngumsebenzi wokuqala wombhali (ababhali) ngokucaphula okufanelekileyo kunye nokubhekisa kuyo nayiphi na into esetyenzisiweyo, eveliswe okanye ephenjelelweyo (kubandakanywa nokusetyenziswa kweAI). Ukusetyenziswa kweAI akufuneki kwaphule imigaqonkqubo yeyunivesiti yokubiwa komsebenzi okanye iinkqubo zokuziphatha kakubi kuphando.

   UkuFundisa-ukuFunda-noVavanyo: Ukuqinisekisa ngokusemthethweni ukuba ngaba abafundi bafundile kwaye baphumeze iziphumo zemodyuli okanye inkqubo, abahlohli kufuneka bazi ukuba umsebenzi abawuhlolayo ngowomfundi ngokomgaqonkqubo woVavanyo weSU (ka2022). Igalelo lokuqala kumsebenzi onikezelwe ngumfundi njengenxalenye yomsebenzi wezemfundo linokuhlolwa kuphela ukuba linokwahlulwa ngokucacileyo kwimisebenzi yabanye okanye umsebenzi wangaphambili wombhali. Apho kusetyenziswe izixhobo zeAI, kufuneka kubhengezwe ukuba zeziphi izixhobo ezisetyenzisiweyo kwaye njani, nini kwaye zisetyenziswe phi. Umfundi makabonise kwakhona ukuba kutheni umsebenzi usafaneleka ukuba ngowakhe, ngakumbi ukuba izixhobo zeAI zisetyenzisiwe ekuveliseni umxholo womsebenzi ovavanywayo (okanye nayiphi na inxalenye enkulu yawo).

   b. **Ukusetyenziswa kweenqobo ezisesikweni kunye nokungaziPhathi kakuhle:** Apho iinkqubo zeAI okanye izixhobo zisetyenziswa ngexesha lophando, ukufundisa nokufunda, abasebenzi nabafundi kufuneka baqinisekise ukuba ukusetyenziswa kwabo akuthobeki kwimigangatho yeenqobo ezisesikweni okanye kubangele naluphi na uhlobo lophando okanye ukuziphatha kakubi kwezemfundo (njengokuqulunqwa kweziphumo okanye ukophulwa kobumfihlo okanye iinkcukacha ezinobuthathaka).

   c. **Inkqubo yophononongo:**

   Ukukhusela intsulungeko yezemfundo kunye nemfihlo, abasebenzi kunye nabafundi kufuneka bathathe uxanduva olupheleleyo kunye nokuphendula ngokuchaneka, ukunyaniseka kunye nokuvela kwengxelo yabo yomhlalutyi. Abasebenzi, abafundi kunye namalungu eKomiti yeeNdlela yokuziPhatha kuPhando (iREC) abakhuthazwa ukuba basebenzise iAI yokuvelisa ukuphononongo izindululo zophando, imibhalongqangi, iithisisi, iimbalo zophando, izicelo zezibonelelo, iimvavanyo okanye naluphi na olunye uhlobo lophando okanye isiphumo sokufundisa-ukufunda-novavanyo. Okwangoku, uninzi lweejenali zenzululwazi azikuvumeli ukusetyenziswa kweAI yokuvelisa uphononongo lwemibhalongqangi ngenxa yokwaphulwa kobumfihlo kunye neempazamo. Uninzi lwabaxhasi bemali bamazwe ngamazwe (njengeNIH) abavumeli ukusetyenziswa kweAI yokuvelisa ekuhlaziyweni kwezicelo zesibonelelo. Amaqonga eAI ayaziwa ngokugcina umxholo, anokuthi akhokelele ekwaphulweni kobumfihlo. Kuyaziwa ngakumbi ukuba izixhobo zeAI aziqeqeshwanga okanye ziqinisekisiwe ukuphonononga ngokunzulu umxholo wezemfundo kwaye kunokukhokelela ekuphononongweni okungachanekanga nokucalucalulo.

   d. **Ukwahlula phakathi kokubhengeza ukusetyenziswa kwezixhobo zeAI kunye nokungabhengezi:** Nangona okukhethiweyo kukubhengeza ukusetyenziswa kweAI, kuyavunywa ukuba ukubhengeza ukusetyenziswa kwezinye iindlela zezixhobo zeAI akubalulekanga. Ukwahlula iimeko apho abasebenzi okanye abafundi kufuneka babhengeze ukusetyenziswa kwezixhobo zeAI xa kungeyomfuneko, sinokuthatha izixhobo zeAI njengeziwela kwiindidi ezimbini, ezizezi:

      i. Ukusetyenziswa kwezixhobo zeAI ezisekelwe kuCwangciso Lwimi lweNdalo (iNLP) ukuncedisa ukubhala okanye ukulungisa umbhalo okanye ikhowudi yekhompyutha:

Ezi zixhobo ziyakwazi ukuzenzekela, kodwa azisetyenziselwa ukuvelisa inxalenye enkulu yomsebenzi ochaphazelekayo okanye ikhowudi yekhompyutha. Umzekelo nje omnye yiGrammarly encedisa umntu ekuphuculeni isicatshulwa esele sibhaliwe. Omnye yiCopilot oncedisa umntu ekubhaleni nasekuphuculeni ikhowudi yekhompyutha. Izixhobo zeAI eziwela kolu didi akufuneki ukuba zibhengezwe, ngaphandle kokuba oko kufunwa ngokuthe ngqo ngumhlohli.

    ii. Ukusetyenziswa kwezixhobo zeAI ezizenzekelayo kuvelisa umxholo wenoveli njengombhalo, imifanekiso, umculo, okanye ikhowudi yekhompyutha, apho abasebenzisi bangenalo elincinci okanye lingabikho kwa: Umzekelo nje omnye ukusetyenziswa kweChatGPT kuvelisa iziqwenga ezinkulu zombhalo, izishwankathelo zemisebenzi okanye uphononongo. Ukusetyenziswa kwezixhobo zeAI eziwela kolu didi kufuneka kubhengezwe ngokupheleleyo, kubandakanywa nenjongo eyayisetyenziselwa yona (umzekelo, ngaba yayisetyenziselwa ukukhawulezisa uphononongo loncwadi kunye nokushwankathela uncwadi lwakho?). Nangona kunjalo, nakuphi na ukubhengezwa kokusetyenziswa kweAI akukhululi abasebenzi okanye abafundi kuxanduva lokuqinisekisa ukuchaneka kunye nokunyaniseka komsebenzi ovelisiweyo.

Lomahluko awucacanga ngokuchanelekileyo, kwaye apho kukho ukuthandabuza, yiphathe njengeyokugqibela (d. ii) kwaye ubhengeze ukusetyenziswa kweAI. Apho kunokwenzeka, uluhlu oluguquguqukayo lwezixhobo zeAI eziwela phantsi kodidi lokuqala luya kwenziwa lufumaneke kwaye luhlaziywe amaxesha ngamaxesha. Ukufumana ezinye izikhokelo, iingcebiso kunye nolawulo lokuhlola, iimeko zokusetyenziswa, kunye noluhlu lwezixhobo eziwela kwezi ndidi, nceda ubhekisele koku kulandelayo:

- NgezoPhando jonga [kuPhuhliso loPhando (sun.ac.za)](#)

- NgokuFundisa nokuFunda jonga ku https://www.sun.ac.za/english/learning-teaching/learning-teaching-enhancement

- Ukusetyenziswa ngokubanzi kweAI jonga ku [IT Service Catalogue - Home (sun.ac.za)](#)

3. **IiNgqwalaselo zokuziPhatha kakuhle nezoMthetho:**

  a. **Ukukhusela abantu kunye noluntu:** Uphando kunye nokufundisa-ukufunda-novavanyo okubandakanya ukusetyenziswa kweAI kufuneka ibeke phambili ukubeka elubala, uxanduva kunye nobulungisa, kwaye ikhusele abantu kunye noluntu ngokuchasene nokuthambekela, ucalucalulo kunye nezinye iingozi ezinokubakho. Abasebenzi kunye nabafundi kufuneka baqaphele ukuthambekela okunokubakho kwidatha eyenziwe yiAI kunye neziphumo kwaye banciphise le mingcipheko. Olunye uqwalaselo olubalulekileyo kukuba ubumfihlo bunokuthotywa ngeAI, kwaye ke ngoko abasebenzi kunye nabafundi kufuneka bachaze ngokucacileyo ukuba ubumfihlo buya kugcinwa njani xa usebenzisa iAI ngexesha lophando kunye nokufundisa-ukufunda-novavanyo.

  b. **Iingqwalasela zomthetho:** Njengalo lonke uphando kunye nokufundisa-kufunda-novavanyo, iimfuno ezifanelekileyo zokulawula kufuneka ziqwalaselwe kwaye umngcipheko onokuthi uthotywe. Ukusetyenziswa kweAI kuphando kunye nokufundisa-kufunda-novavanyo kufuneka kuhambelane nemimiselo yokukhusela idatha kwaye kuhloniphe ubumfihlo kunye nemfihlo yabathathinxaxheba bophando okanye izifundo ezichaphazelekayo. Abasebenzi nabafundi kufuneka baqonde ngakumbi ukuba ukophulwa kwepropathi yobungqondi enomgangatho ophezulu wokuqonda (ingakumbi, ilungelo lokushicilela) kungenzeka ngokusetyenziswa kweenkqubo zeAI ezivelisayo kwaye kufuneka

bafune isikhokelo kwiCandelo loPhuhliso loPhando okanye i-Innovus apho kukho iinkxalabo. Nangona iSU ixhasa iphulo lokuvula isayensi, ukukhuselwa kolwazi lomntu siqu okanye oluyimfihlo akumele lwaphulwe.

4. **Imfundo kunye nokuba noLwazi:**

   a. **ULwazi lokuFunda nokuBhala ngeAI:** Kubalulekile kubasebenzi kunye nabafundi (kwaye apho kufanelekileyo, kubathathinxaxheba bophando) ukuba babe nolwazi lweAI kunye nokuqonda amandla, kunye nobungozi obunokubakho kunye nokunciphisa, kwezixhobo zeAI. Kukho uxanduva kwiziko lokubonelela ngoqeqesho nenkxaso, ngokumalunga noku, kubandakanywa noqeqesho lwabasebenzi, abafundi namalungu eREC. Ngokukodwa, njengenxalenye yolongamelo lwabafundi, uqeqesho malunga nokusetyenziswa ngendlela eyiyo kwezixhobo zeAI zophando kunye novavanyo lokufundisa-ukufunda kufuneka lunikezelwe ukuqinisekisa ukuba ukuziphatha okusesikweni kuyakhuthazwa kuwo onke amacandelo kunye neendidi zabasebenzi nabafundi. IYunivesithi ikwinkqubo yokuphuhlisa imathiriyeli yekhosi ukuxhasa abasebenzi nabafundi bethu ngokupheleleyo.

   b. **IsiKhokelo kunye neZibonelelo:** Abasebenzi baya kubonelelwa ngezibonelelo kunye noqeqesho lokukhokela abafundi ekusebenziseni ngokufanelekileyo iAI yokuvelisa kuphando kunye nokufundisa-ukufunda-novavanyo, kubandakanywa nokuqonda iimpembelelo zokuziphatha kunye neziphumo zokusebenzisa iAI kunye nokubaluleka kokuthotyelwa kwemigaqonkqubo yeYunivesithi yaseStellenbosch. Ukukhuthaza ingqiqo yokuthatha uxanduva kunye nokuphendula ekuthathweni kwezigqibo ngexesha lophando kunye nenkqubo yokukufunda-ukufunda-novavanyo kuya kuba negalelo ekomelezeni indlela yokuziphatha ethembekileyo kubo bonke abasebenzi nabafundi. IYunivesithi ikwinkqubo yokuphuhlisa izikhokelo kunye nezibonelelo zokuxhasa ngokupheleleyo abasebenzi nabafundi bethu.

5. **Uxanduva kuLuntu:**

   a. **Iimpembelelo ngokuBanzi:** I-SU iyaluqonda uxanduva lwayo lwezentlalo lokuqhuba uphando, ukufundisa nokufunda ukwenzela okulungileyo nokujongana nemingeni yoluntu. Kunyanzelekile ukuba abasebenzi kunye nabafundi baqwalasele iimpembelelo ezibanzi kunye neengozi ezinokubakho zokusetyenziswa kweenkqubo zeAI okanye izixhobo okanye ukudalwa kweenkqubo zeAI okanye izixhobo, ngakumbi apho zilingana nokukhuselwa kolwazi lomntu okanye oluyimfihlo, okanye ukusetyenziswa kakubi njengezixhobo, okanye zibe nefuthe eliyingozi elinokubakho kokusingqongileyo.

   b. **Igalelo kwiiNgxoxo zokuziPhatha kakuhle:** Sikhuthaza abasebenzi kunye nabafundi ukuba bafake isandla kwiingxoxo zokuziphatha ezijikeleze impembelelo yeAI kuluntu, uqoqosho kunye nolawulo. Ingxoxo evulekileyo, engenamkhethe kufuneka ikhuthazwe ukunika ithuba kubasebenzi nabafundi ukuba baxoxe ngokusetyenziswa kokuziphatha kweAI kuphando nokufundisa-ukufunda-novavanyo kunye nokujongana nayo nayiphi na inkxalabo.

6. **Ulawulo olusuLungekileyo:**

   a. **Amaxwebhu oLawulo kunye neziKhokelo:** Kangangoko kunokwenzeka, iziko liya kuthi gqolo liphonononge kwaye lihlaziye amaxwebhu alo olawulo kunye/okanye libonelele ngezikhokelo zokusetyenziswa kweAI kuphando nokufundisa-ukufunda-novavanyo, ukubonakalisa inkqubelaphambili yethekhinoloji kunye nemingeni esakhulayo yokuziphatha ehambelana nayo.

b. **Indlela yokusebenzisana:** Kuyavunywa ukuba intsebenziswano phakathi kweeyunivesithi, abasebenzi kunye nabafundi, abaxhasi ngezimali kunye nee-arhente ezilawulayo ziyafuneka ukuze kujongwe imeko ehlala itshintsha nokwabelana ngezona ndlela zilungileyo. I-SU izibophelele ekuthatheni inxaxheba ngokubonakalayo kulo mba.

Uqukumbelo:

I-AI ilapha ukuze ihlale, kwaye, ke ngoko, iyunivesiti yethu izibophelele ekukhuthazeni indawo apho iAI inokusetyenziselwa ukukhulisa ngokufanelekileyo (kunokuba ithobe okanye ijongele phantsi) uphando, ukufundisa nokufunda ngokuxhasa intembeko yomsebenzi wezemfundo kunye nokuqinisekisa ukuthembeka kunye nokuthembeka. yeziphumo zophando. Oku kuzibophelela kunabela kubasebenzi, abafundi kunye nabanye abathathinxaxheba abasebenzisanayo kule misebenzi kunye nangegama leSU.

A. Imigaqonkqubo efanelekileyo kunye neziKhokelo (kunye nophononongo olulandelayo):

1. Umgaqonkqubo oQwalasela ukuZiphatha kwezoPhando kwiYunivesithi yaseStellenbosch. https://www.sun.ac.za/english/research-innovation/Research-Development/policies-guidelines

2. Inkqubo yeYunivesithi yaseStellenbosch (iSU) yophando lwezityholo zokwaphulwa kwemigaqo nemigangatho yophando. https://www.sun.ac.za/english/research-innovation/Research-Development/policies-guidelines

3. Umgaqonkqubo wokuKopa (ukuxhasa iNtembeko kwiziFundo). https://www.sun.ac.za/english/research-innovation/Research-Development/policies-guidelines

4. IYunivesithi yaseStellenbosch ("iSU") Inkqubo yophando nolawulo lwezityholo zokukopa. https://www.sun.ac.za/english/research-innovation/Research-Development/policies-guidelines

5. Izikhokelo ezisayilwayo zeSU zethutyana malunga nokusetyenziswa kweAI okuvumelekileyo kunye nokuthembeka kwezemfundo kuvavanyo. Interim SU guidelines on allowable AI use and academic integrity.pdf (sun.ac.za)

6. IKhowudi yoLuleko: Imithetho emalunga namaNyathelo oLuleko ngakuMalungu angabasebenzi. Microsoft Word - DISSIPLINERE PROSEDURE AFR met veranderinge soos deur die Raad en Anton aanbeveel. finaal aan AP aanbeveel__46 (sun.ac.za)

7. Ikhowudi yoLuleko yaBafundi beSU. Disciplinary Code For Students Of Stellenbosch University_2021.pdf (sun.ac.za)

8. Ikhowudi yeYUnivesithi yaseStellenbosch ka2040 Code 2040 (sun.ac.za)

9. Umgaqonkqubo wokuFundisanokuFunda[2]

B. Izalathiso:

1. ASSAf and ScIELO Guidelines or the Use of Artificial Intelligence (AI) Tools and Resources in Research Communication. 17 September 2024. https://assaf.org.za/wp-

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[2] Umgaqonkqubo ohlaziyiweyo uza kuthiwa thaca kwisiGqeba soLawulo ngo2024 UMgaqonkqubo ka2018 uza kusebenza de umgaqonkqubo ohlaziyiweyo wamkelwe.

content/uploads/2024/09/Final-ASSAf-and-SciELO-Guidelines-for-the-Use-of-Artificial-Intelligence-AI-Tools-and-Resources-in-Research-Communication_17-Sept-2024-.pdf.

2. Bekker, M. Large language models and academic writing: Five tiers of engagement. S Afr J Sci 2024. 120(1/2). https://doi.org/10.17159/sajs.2024/17147.

3. Cambridge launches AI research ethics policy. 14 March 2023. Cambridge launches AI research ethics policy | Cambridge University Press & Assessment

4. Guidelines and recommendations for the use of generative artificial intelligence (AI) tools in research, University of Cape Town. 31 October 2023.

5. "I can't help falling in love with AI": chatbots and research integrity. 25 July 2023. AI in research - UK Research Integrity Office (ukrio.org)

6. Nature Editorial. Tools such as ChatGPT threaten transparent science: here are our ground rules for their use. Nature **613**, 612; 2023. *doi: https://doi.org/10.1038/d41586-023-00191-1*

7. Russel Group principles on the use of generative AI tools in education. 4 July 2023. New principles on use of AI in education (russellgroup.ac.uk)

8. South African Ethics in Health Research Guidelines: Principles, Processes and Structures 2024. 3rd Edition. Department of Health South African Ethics in Health Research Guidelines: Principles, Processes and Structures NDoH 2024 3rd ed.

9. University Policies on AI. 2 October 2023. https://www.researchprospect.com/university-policies-on-ai/