

### مراحل نصب KNIME

### ۱- دانلود برنامه KNIME، مطابق تصاویر:

همان طور که در تصویر مشاهده می شود پس از ورود به آدرس وب سایت (<u>https://www.knime.com/downloads/download-knime</u>) در بخش Download ها، نسخه های مربوط به سیستم عامل های متفاوت اعم از ویندوز، لینوکس و مک وجود دارند، که دراینجا به دلیل اینکه سیستم عاملی که ما با آن کار می کنیم ویندوز نسخه ۶۴ بیتی می باشد درنتیجه مطابق تصویر (**با نوار قرمز رنگ مشخص شده است**) بر روی بخش مورد نظر کلیک می کنیم تا به صفحه دانلود هدایت شویم.

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۲- پس از دانلود، جهت نصب بر روی فایل دانلود شده کلیک می نماییم تا فرآیند نصب آغاز گردد. (تصاویر به صورت مرحله به مرحله آورده شده اند، و بخش های مهم که در مرحله می بایست انتخاب شوند با **نوار قرمز رنگ** مشخص شده اند.)



تصوير۴

 تصویر ۴، در بخش انتخاب مسیر نصب فایل امکان تغییر محل نصب برنامه می باشد، اما توصیه می شود محل پیش فرض باقی بماند.



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تصوير ۷

 تصویر ۷، به صورت پیشفرض براساس حافظهٔ سیستم، خود برنامه مقداری را پیشنهاد می دهد که این مقدار قابل تغییر می باشد. اما **توصیه می شود** در هنگام نصب تغییر نکند و به همان مقدار پیشنهادی باشد. در ادامه در صورتی که پروژه ای نیازمند تخصیص مقدار حافظه بیشتری بود می توان مقدار آن را تغییر داد.





تصوير ۸



تصوير ۸



تصوير ٩

• تصویر ۹، با کلیک بر روی دکمه Finish نصب KNIME تکمیل می شود.





تصوير ١٠

تصویر ۱۰، با کلیک بر روی آیکون برنامه KNIME را اجرا می کنیم.

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KNIME Analytics Platform uses the workspace directory to store its preferences and development artifacts.						
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Use this as the default and do not ask again						
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تصوير ١١

 تصویر ۱۱، در هنگام اجرای برنامه مطابق تصویر پنجره ای باز می شود جهت تنظیم کردن محلی برای ذخیره پروژه ها، که می توانید در هر محلی که مدنظرتان می باشد آن را تغییر دهید.

قبل از ایجاد و اجرای پروژه جهت انجام کارهای مربوط به پردازش تصویر می بایست برخی از افزونه ها (Extensions) بر روی KNIME نصب شوند. (تصاویر ۱۲ الی ۲۵)



تصوير ۱۲



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تصوير١۵

### • تصویر ۱۵، تمامی افزونه های مربوط به Image Processing را تیک می زنیم تاهمگی دانلود شده و سپس نصب شوند.

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تصوير ۱۶



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تصوير ۱۹

#### • تصویر ۱۹، افزونه ها در حال نصب هستند و درصد پیشرفت از بخش موجود در پایین صفحه قابل مشاهده می باشد.



تصوير ۲۰





تصوير٢١

• تصویر ۲۱، پس از نصب تمامی افزونه های انتخاب شده، برنامه Restart خواهد شد.



تصوير٢٢



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تصویر ۲۲، در ادامه مراحل نصب این بار ابزارها و افزونه های مربوط به Deep Learning را می بایست نصب کنیم. که در بخش جست و جو عارت Knime deep را وارد می کنیم که بعد از آن افزونه ها لیست می شوند تیک همگی را می زنیم را نصب آن ها نیز انجام شود. (حتماً پس از انجام عملیات نصب افزونه ها، مجدداً چک شود که تمامی افزونه های Knime را نصب آن ها نیز انجام شود. (حتماً پس از انجام عملیات نصب افزونه ها، مجدداً چک شود که تمامی افزونه های مراحل نصب کنیم که بعد از آن افزونه ها لیست می شوند تیک همگی را می زنیم را نصب آن ها نیز انجام شود. (حتماً پس از انجام عملیات نصب افزونه ها، مجدداً چک شود که تمامی افزونه های deep و deep



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تصوير٢۵





تصوير ۲۶

• تصویر ۲۶، پس از نصب تمامی افزونه های انتخاب شده مجدداً برنامه Restart خواهد شد.



یس از نصب افزونه ها می بایست از صحت کارکرد پایتون نیز اطمینان حاصل پیدا کرد. (تصاویر ۲۷ الی ۳۹)





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تصوير ۳۰

تصویر ۳۰، همانگونه که مشاهده می شود نسخه Conda و Python3 مشکلی ندارند اما Python2 دارای خطا می باشد
 که می بایست رفع گردد. بنابراین جهت برطرف کردن مشکل از طریق کلیک بر روی New Environment (نوار بنفش رنگ) مراحل می بایست انجام شوند.











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تصوير۳۵

• تصویر ۳۵، همانگونه که مشاهده می شود نسخه Python Deep Learning نیاز به برخی کنابخانه های ضروری از جمله



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تصوير۳۶





تصوير۳۸



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تصوير۳۹

برنامه KNIME به همراه افزونه های مورد نیاز جهت انجام پروژه های پردازش تصویر (Image Processing) با موفقیت نصب شدند.

نکته آخر؛ در ادامه در صورتی که پروژه ای نیاز به افزونه های دیگری داشت مطابق تصاویر ۲۲ و ۲۳، افزونه مورد نظر را جستجو کرده و نصب آنها را انجام میدهیم.