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| 교육 제목 | AI 프로젝트 기반 S/W 전문가 양성과정 |
| 교육 일시 | 21.11.16 |
| 교육 장소 | 대면(강의실) |
| **교육 내용** | |
| 오전 | <파이썬 머신러닝 판다스 데이터 분석>  Series and dataframe  Dictionary to series  Series index  Series element  Dictionary to dataframe  Change df index column  Remove row  Remove column  Select row  Select column  Select element  Add column  Add row  Modify df element  Transpose  Set index  Reindex  Reset index  Sort index  Sort values  Series to number  Series to series  Df to number  Df to df  Data input/output  Read csv  Read excel  Read json  Read html  To csv  To json  To excel  samples  US ETF list  Google Geocoding api  Excel writer  SQL  Web Scraping/Crawling  pd.read\_html  3rd party library: BS4, Selenium, etc  Online API  JSON, XML, Excel download  회원등록, API 키 필요 (보통)  실시간 데이터 (유료)  Exploratory Data Analysis  EDA  df.head()  df.tail()  df.shape  df.info()  df.dtype  df.describe()  df.count()  df.value\_counts()  df.mean()  df.median()  df.max()/df.min()  df.std()  df.corr()    Pandas Plot  df.plot(kind=’’)  Bar  Hist  Scatter  Box  etc  Visualization tools  Matplotlib  Matplotlib 기능 정리 sheet 주소  https://github.com/matplotlib/cheatsheets#cheatsheets  line  area  bar  histogram  scatter  pie  box  Seaborn  regplot  distplot  heatmap  stripplot / swarmplot  bar  countplot  violinplot (box)  jointplot  FacetGrid  pairplot    Folium  map  map marker  choropleth  Data preprocessing  isnull/notnull  dropna  Replace NaN  Duplicated  Drop duplicated  Unit conversion  Data type conversion  Data binning  Get dummies  One hot encoding  Normalize max  Normalize min/max  Time series  Time series period  Data range  Period range  Datetime format  Datetime indexing  Advanced applications  Apply  Applymap  Column order  Column split  Filter  Concat  Merge  Join  Groupby  Multi index  Pivot  #판다스 재 복습  # Part\_01\_판다스 입문 |
| 오후 | # 판다스 재 복습  # Part\_02\_데이터 입출력  # Part\_03\_데이터 살펴보기 |