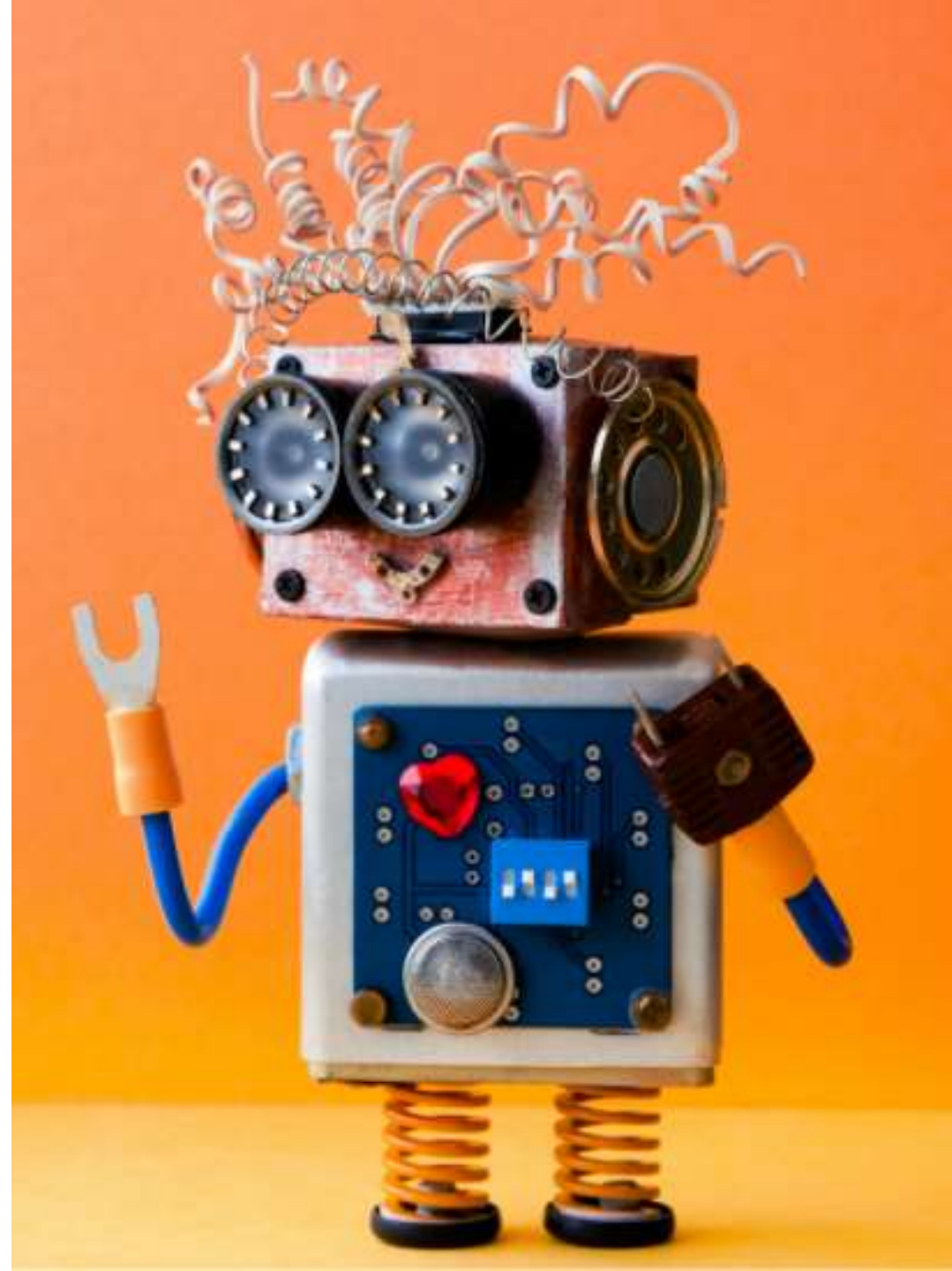


PROJECT OVERVIEW AND KEY LEARNING OUTCOMES

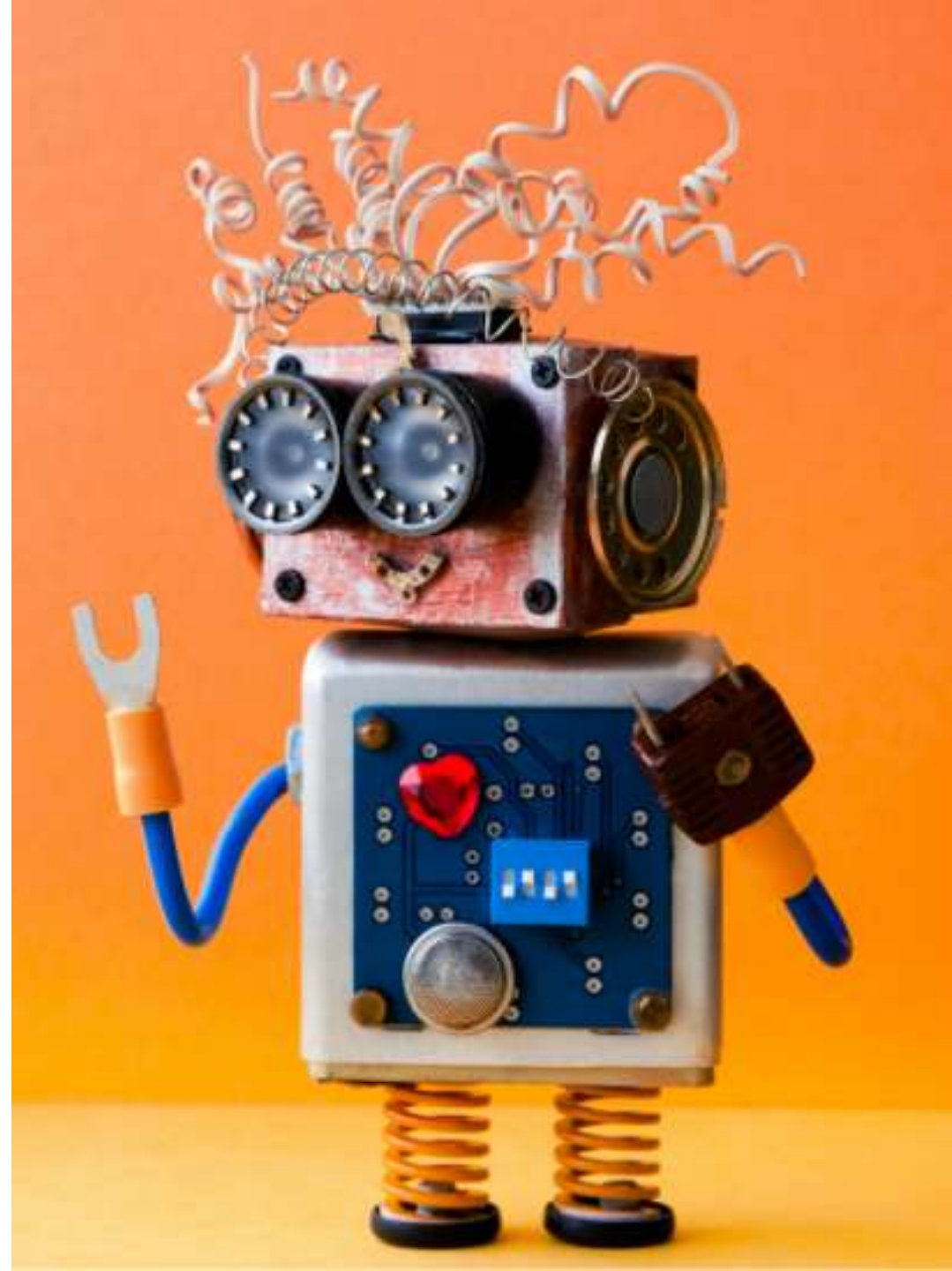
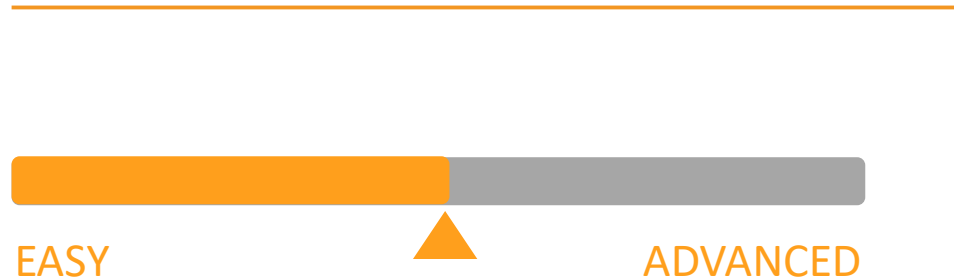


PROJECT OVERVIEW AND LEARNING OUTCOMES

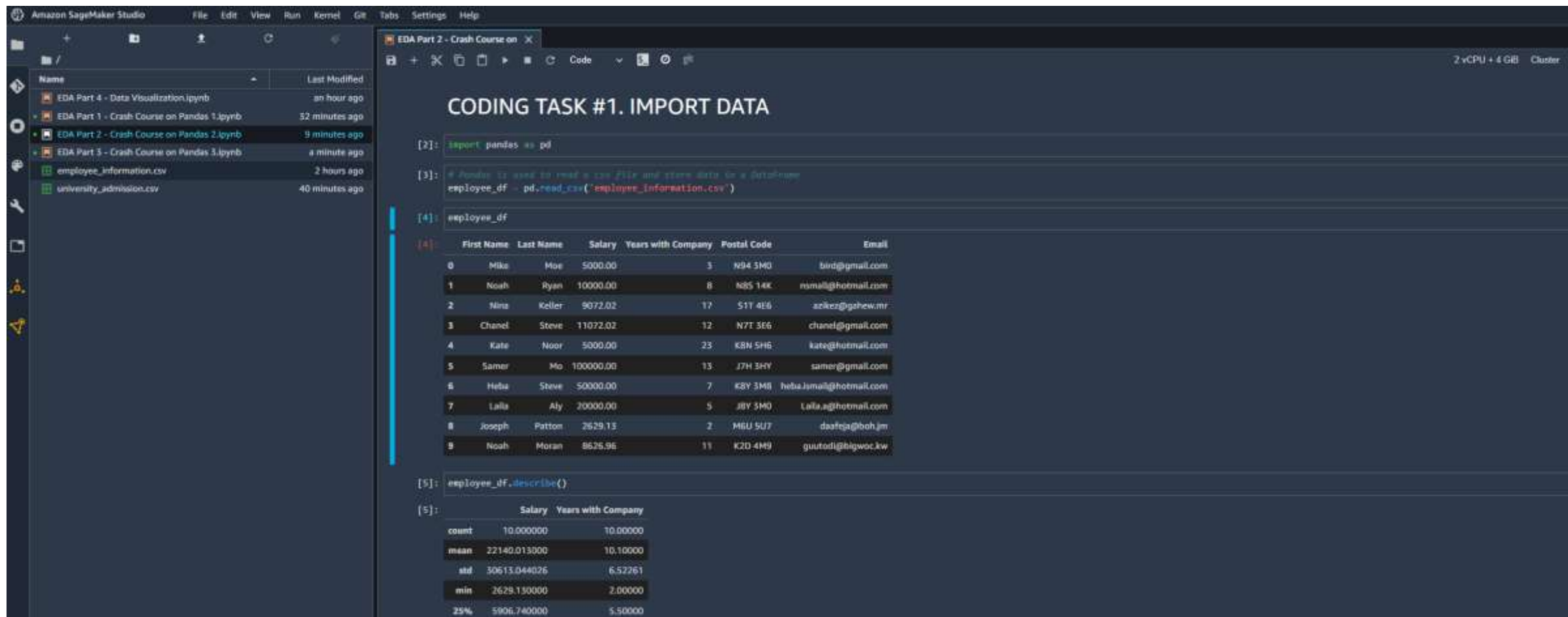
- We will analyze corporate employee information using Pandas in Jupyter Notebooks in AWS SageMaker Studio.
- We will learn how to:
 1. Select Specific Columns from the DataFrame
 2. Add/Delete Columns from the DataFrame
 3. Perform Label/integer-based elements selection
 4. Perform broadcasting operations
 5. Perform Pandas DataFrames sorting/ordering

	First Name	Last Name	Salary	Years with Company	Postal Code	Email
0	Mike	Moe	5000.00	3	N94 3M0	bird@gmail.com
1	Noah	Ryan	10000.00	8	N8S 14K	nsmall@hotmail.com
2	Nina	Keller	9072.02	17	S1T 4E6	azikez@gahew.mr
3	Chanel	Steve	11072.02	12	N7T 3E6	chanel@gmail.com
4	Kate	Noor	5000.00	23	K8N 5H6	kate@hotmail.com
5	Samer	Mo	100000.00	13	J7H 3HY	samer@gmail.com
6	Heba	Steve	50000.00	7	K8Y 3M8	heba.ismail@hotmail.com
7	Laila	Aly	20000.00	5	J8Y 3M0	Laila.a@hotmail.com
8	Joseph	Patton	2629.13	2	M6U 5U7	daafeja@boh.jm
9	Noah	Moran	8626.96	11	K2D 4M9	guutodi@bigwoc.kw

PROJECT DEMO



PROJECT DEMO



The screenshot displays the Amazon SageMaker Studio interface. On the left, a file explorer shows a list of notebooks and CSV files. The main area shows a Jupyter notebook titled "EDA Part 2 - Crash Course on Pandas 2.ipynb". The notebook content includes a coding task to import data from a CSV file and analyze it using Pandas.

File Explorer:

Name	Last Modified
EDA Part 4 - Data Visualization.ipynb	an hour ago
EDA Part 1 - Crash Course on Pandas 1.ipynb	52 minutes ago
EDA Part 2 - Crash Course on Pandas 2.ipynb	9 minutes ago
EDA Part 3 - Crash Course on Pandas 3.ipynb	a minute ago
employee_information.csv	2 hours ago
university_admission.csv	40 minutes ago

CODING TASK #1. IMPORT DATA

```
[2]: import pandas as pd
```

```
[3]: # Pandas is used to read a csv file and store data in a Dataframe
employee_df = pd.read_csv('employee_information.csv')
```

```
[4]: employee_df
```

```
[4]:
```

	First Name	Last Name	Salary	Years with Company	Postal Code	Email
0	Mike	Mo	5000.00	3	N94 3M0	bird@gmail.com
1	Noah	Ryan	10000.00	8	N85 14K	noah@gmail.com
2	Nina	Keller	9072.02	17	S1T 4E6	azikez@gshew.mr
3	Chanel	Steve	11072.02	12	N7T 3E6	chanel@gmail.com
4	Kate	Noor	5000.00	23	K8N 5H6	kate@hotmail.com
5	Samer	Mo	100000.00	13	J7H 3HY	samer@gmail.com
6	Heba	Steve	50000.00	7	K8Y 3M8	heba.jmail@hotmail.com
7	Laila	Aly	20000.00	5	J8Y 3M0	Laila.a@hotmail.com
8	Joseph	Patton	2629.13	2	M6U 5U7	daafeja@boh.im
9	Noah	Moran	8625.96	11	K2D 4M9	guutodi@higwoc.kw

```
[5]: employee_df.describe()
```

```
[5]:
```

	Salary	Years with Company
count	10.000000	10.000000
mean	22140.013000	10.100000
std	30613.044026	6.57261
min	2629.130000	2.000000
25%	5906.740000	5.500000