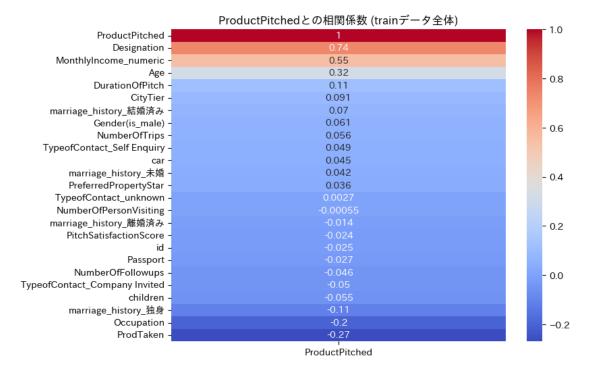
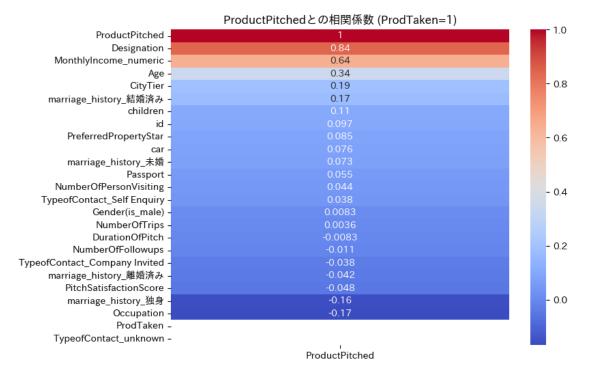
05 EDA

August 15, 2024

0.1 ProductPitched

```
[7]: # train_df
correlation = train_df.corr()
correlation = correlation["ProductPitched"].sort_values(ascending=False)
# print(correlation)
# plot correlation
plt.figure(figsize=(8, 6))
sns.heatmap(correlation.to_frame(), cmap="coolwarm", annot=True)
plt.title("ProductPitched (train )")
plt.show()
```

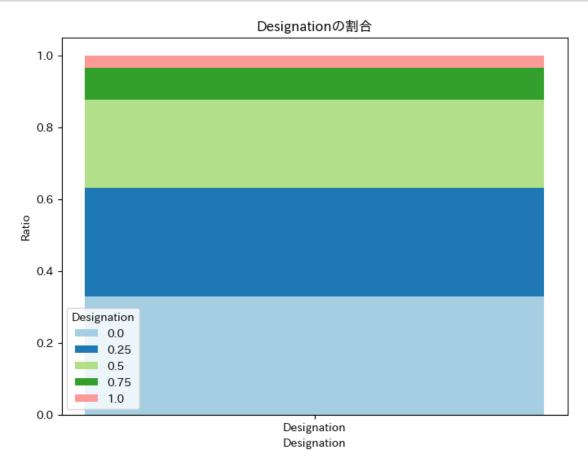


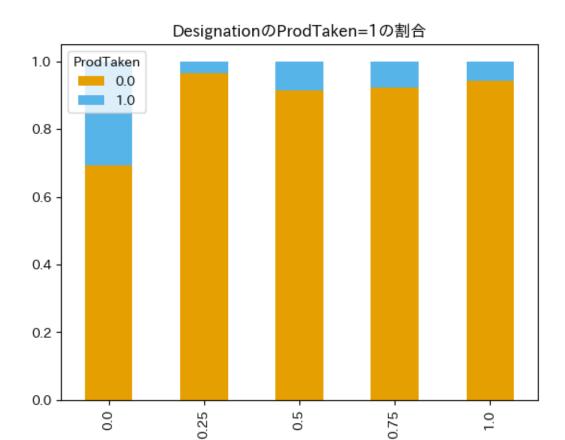


```
[25]: #
      designation_df = train_df["Designation"].value_counts(normalize=True).
       →reset_index()
      designation_df.columns = ["Designation", "ratio"]
      designation_df = designation_df.sort_values("ratio", ascending=False)
      fig, ax = plt.subplots(figsize=(8, 6))
      #
      bottom = 0
      colors = plt.cm.Paired(range(len(designation_df)))
      for i, row in designation_df.iterrows():
          ax.bar("Designation",
                 row["ratio"],
                 bottom=bottom,
                 color=colors[i],
                 label=row["Designation"])
          bottom += row["ratio"]
      ax.set_title("Designation ")
```

```
ax.set_xlabel("Designation")
ax.set_ylabel("Ratio")
ax.legend(title="Designation")

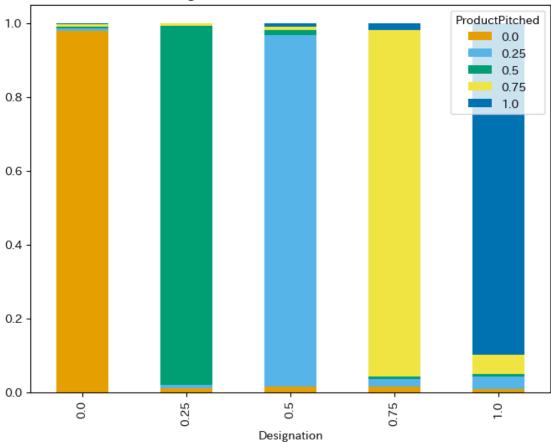
#
plt.show()
```

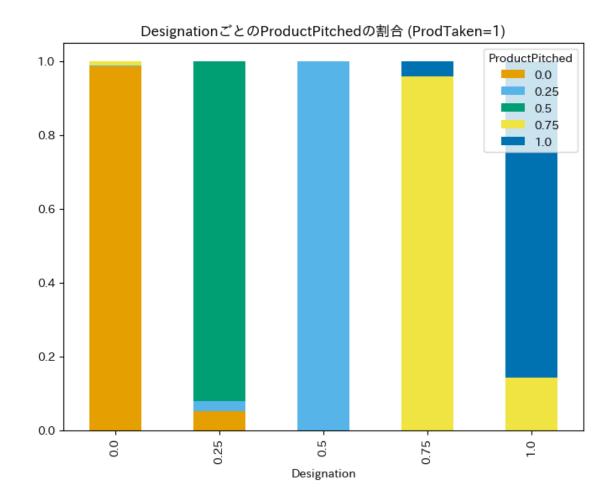




Designation







[]: