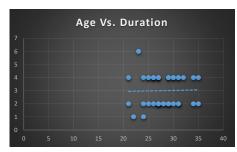
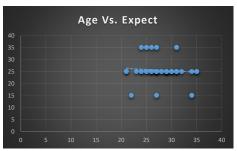
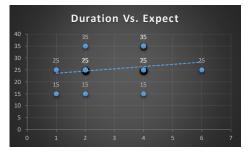
Correlation Analysis

Objective: Explore potential correlations between factors.

gender	age	Duration	Expect	Duration(Numeric)	Expect (Numeric)
Female	34	1-3 years	20%-30%	2	25
Female	23	More than 5 years	20%-30%	6	25
Male	30	3-5 years	20%-30%	4	25
Male	22	Less than 1 year	10%-20%	1	15
Female	24	Less than 1 year	20%-30%	1	25
Female	24	1-3 years	30%-40%	2	35
Female	27	3-5 years	20%-30%	4	25
Male	21	3-5 years	20%-30%	4	25
Male	35	1-3 years	20%-30%	2	25
Male	31	3-5 years	30%-40%	4	35
Female	35	3-5 years	20%-30%	4	25
Male	29	1-3 years	20%-30%	2	25
Female	21	1-3 years	20%-30%	2	25
Female	28	1-3 years	20%-30%	2	25
Female	25	1-3 years	20%-30%	2	25
Male	27	1-3 years	20%-30%	2	25
Female	28	1-3 years	20%-30%	2	25
Male	27	1-3 years	20%-30%	2	25
Male	29	1-3 years	20%-30%	2	25
Male	26	3-5 years	20%-30%	4	25
Male	29	3-5 years	20%-30%	4	25
Female	24	3-5 years	20%-30%	4	25
Male	27	3-5 years	20%-30%	4	25
Male	25	3-5 years	20%-30%	4	25
Female	26	3-5 years	30%-40%	4	35
Female	32	3-5 years	20%-30%	4	25
Male	26	3-5 years	20%-30%	4	25
Male	31	1-3 years	20%-30%	2	25
Male	29	1-3 years	20%-30%	2	25
Female	34	3-5 years	10%-20%	4	15
Male	27	1-3 years	10%-20%	2	15
Female	31	3-5 years	20%-30%	4	25
Male	27	3-5 years	30%-40%	4	35
Male	26	1-3 years	20%-30%	2	25
Male	27	1-3 years	20%-30%	2	25
Male	30	3-5 years	20%-30%	4	25
Male	30	1-3 years	20%-30%	2	25
Male	25	3-5 years	30%-40%	4	35
Male	31	1-3 years	20%-30%	2	25
Male	29	3-5 years	20%-30%	4	25







	Age Vs. Duration	Age Vs. Expect	Duration Vs. Expect
Correlation:			
	0.024	-0.090	0.242

1. Age vs. Duration (Correlation: 0.024):

The correlation is very close to 0, indicating **no significant linear relationship** between Age and Duration. The data suggests that age does not seem to be strongly related to the duration category (after encoding).

2. Age vs. Expect (Correlation: -0.090):

The negative value of the correlation indicates a very weak inverse relationship between Age and Expect. However, since the value is close to 0, the relationship is not significant, meaning there is little to no relationship between age and expected percentage range.

3. Duration vs. Expect (Correlation: 0.242):

This positive correlation suggests a **weak positive relationship** between Duration (encoded) and Expect (encoded). As the duration category increases, there seems to be a slight increase in the expected percentage range. However, the correlation is still low, so it's not a strong relationship.

Summary:

None of the correlations are strong enough to suggest a significant relationship, but the **Duration vs. Expect** correlation is the highest, indicating a slightly positive association between the two variables.