

Comprehensive Data Profile Report

Report generated on: 2025-04-02 17:56:39

===[🔍] COMPREHENSIVE DATA PROFILE ===[

📝 Total records: 1,500

📋 Columns (10): ['id', 'first_name', 'last_name', 'sex', 'dob', 'village_name', 'occupation', 'covid_19_first_vacc_date', 'age_on_first_vacc', 'vacc_manufacturer']

▶️ Skipping ID columns: ['id', 'covid_19_first_vacc_date']

A. 🔍 BASIC METADATA

	Data Type	Missing Values	Missing %	Unique Values
first_name	object	0	0.0	10
last_name	object	0	0.0	10
sex	object	0	0.0	2
dob	object	0	0.0	1451
village_name	object	0	0.0	7
occupation	object	0	0.0	7
age_on_first_vacc	int64	0	0.0	55
vacc_manufacturer	object	0	0.0	6

B. 🔎 ADVANCED QUALITY CHECKS

◆ Duplicate Rows: 0 (0.00%)

◆ Outlier Report:

Column	Outliers	% Outliers	Min	Max
age_on_first_vacc	0	0.00%	None	None

◆ Constant Features: None found

◆ High-Cardinality (>50 unique): ['dob']

C. NUMERICAL FEATURES

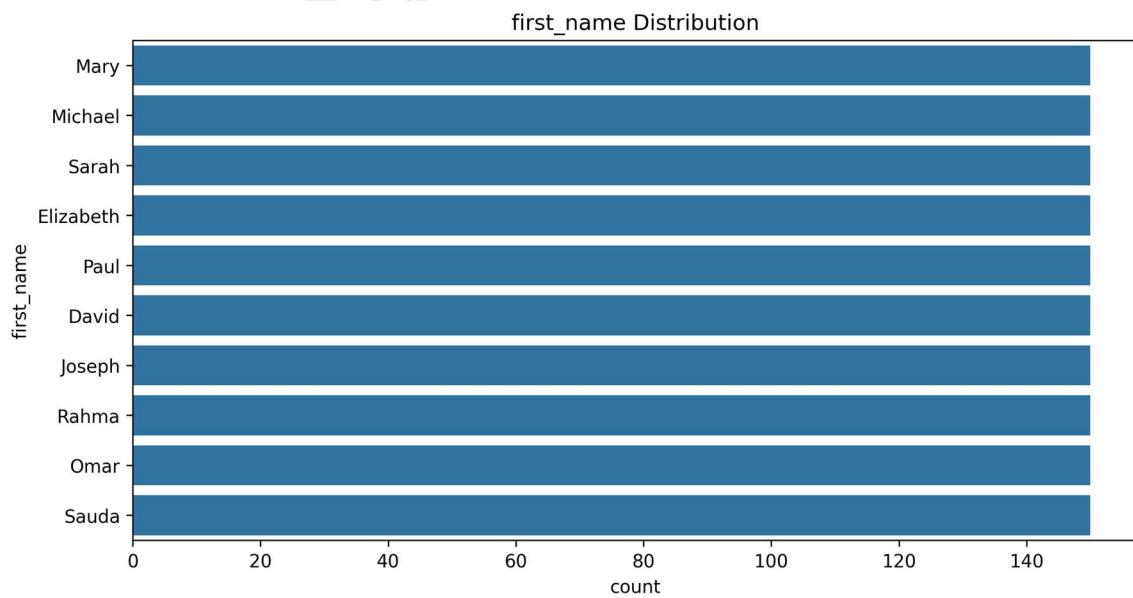
	count	mean	std	min	25%	50%	75%	max	skewness	kurtosis	outliers
age_on_first_vacc	1500.0	41.299333	15.343099	14.0	28.0	42.0	54.0	68.0	-0.001015	-1.185697	0

Distribution and Spread of age_on_first_vacc:

D. CATEGORICAL FEATURES

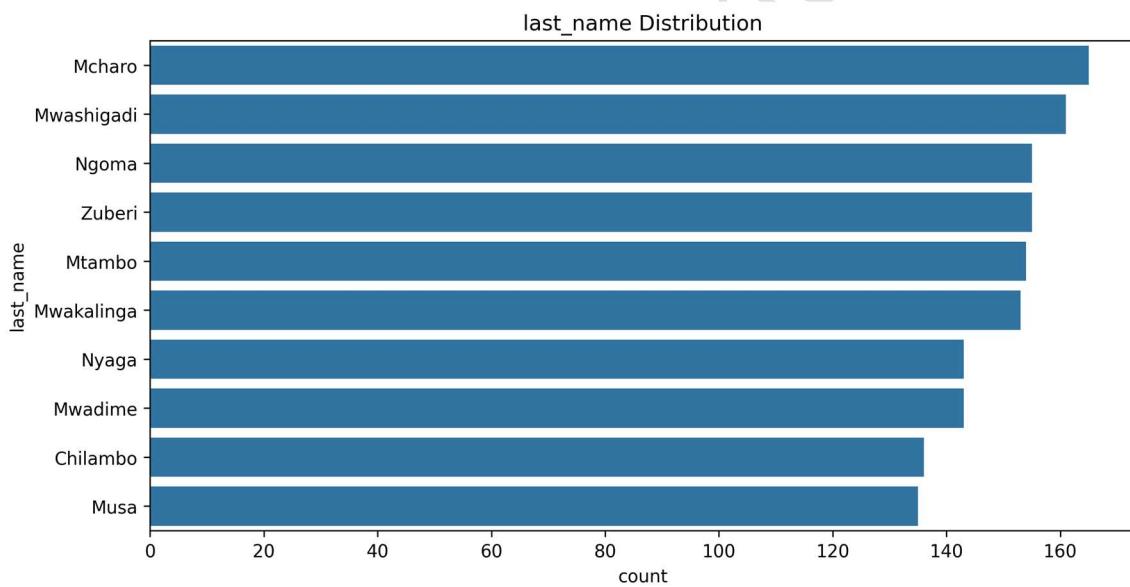
first_name Distribution:

	Count	Percentage
first_name		
Mary	150	10.0
Michael	150	10.0
Sarah	150	10.0
Elizabeth	150	10.0
Paul	150	10.0
David	150	10.0
Joseph	150	10.0
Rahma	150	10.0
Omar	150	10.0
Sauda	150	10.0



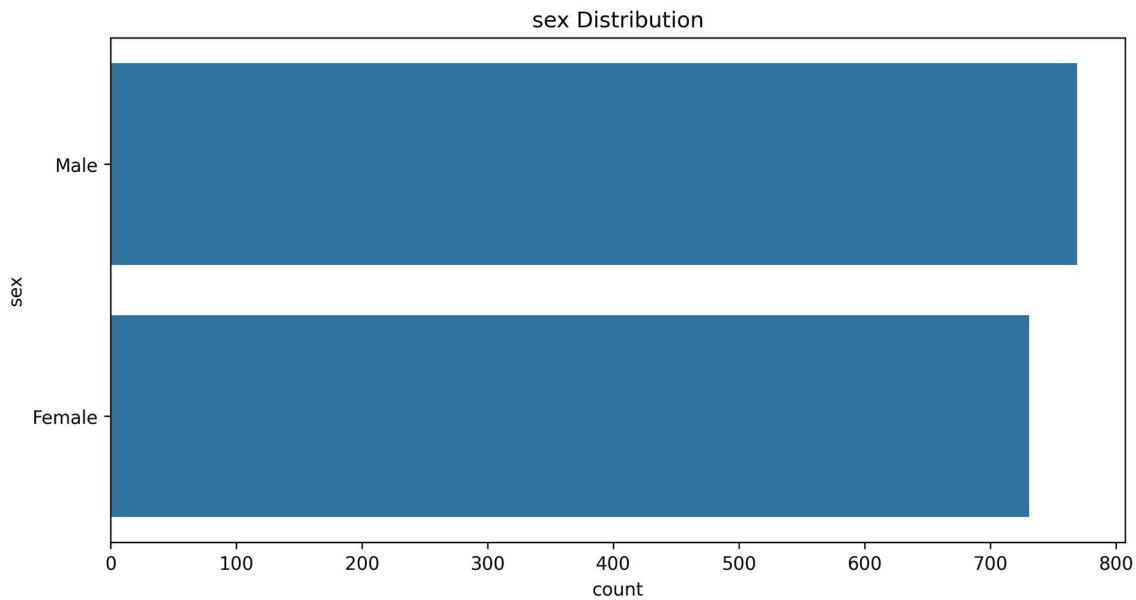
last_name Distribution:

last_name	Count	Percentage
Mcharo	165	11.00
Mwashigadi	161	10.73
Ngoma	155	10.33
Zuberi	155	10.33
Mtambo	154	10.27
Mwakalinga	153	10.20
Nyaga	143	9.53
Mwadime	143	9.53
Chilambo	136	9.07
Musa	135	9.00



sex Distribution:

sex	Count	Percentage
Male	769	51.27
Female	731	48.73



dob Distribution:

dob	Count	Percentage
1965-12-03	3	0.20
1973-05-25	3	0.20
1973-03-22	2	0.13
1970-04-22	2	0.13
1993-02-16	2	0.13
1970-12-25	2	0.13
1988-03-25	2	0.13
1998-05-08	2	0.13
1984-09-08	2	0.13
1980-03-26	2	0.13
1989-12-20	2	0.13
1979-06-29	2	0.13
1990-09-11	2	0.13
1970-10-05	2	0.13
1955-04-16	2	0.13
1993-10-07	2	0.13
1995-08-14	2	0.13
1974-04-24	2	0.13
1965-05-17	2	0.13
1962-06-19	2	0.13
2000-12-26	2	0.13

1980-04-24	2	0.13
1987-12-22	2	0.13
1989-04-23	2	0.13
1987-11-11	2	0.13
1971-07-10	2	0.13
1992-05-11	2	0.13
1968-12-05	2	0.13
1969-01-15	2	0.13
2001-08-14	2	0.13
1958-05-07	2	0.13
1991-05-10	2	0.13
1978-09-14	2	0.13
2001-01-20	2	0.13
2006-01-25	2	0.13
1998-05-06	2	0.13
1997-07-20	2	0.13
1961-08-19	2	0.13
1973-07-14	2	0.13
2003-12-24	2	0.13
1979-11-30	2	0.13
1992-03-26	2	0.13
1985-04-16	2	0.13
1970-05-09	2	0.13
1960-10-31	2	0.13
1974-07-26	2	0.13
1968-01-31	2	0.13
2002-03-23	1	0.07
1998-05-28	1	0.07
1959-03-14	1	0.07
1999-09-13	1	0.07
1981-09-29	1	0.07
1961-02-06	1	0.07
1969-10-22	1	0.07
1958-05-26	1	0.07
1956-09-03	1	0.07
1980-06-19	1	0.07
1991-09-03	1	0.07
2000-03-20	1	0.07
1982-05-10	1	0.07
1959-07-20	1	0.07
2003-07-28	1	0.07
1983-06-22	1	0.07
1961-12-25	1	0.07

1977-08-25	1	0.07
1974-08-24	1	0.07
1984-06-24	1	0.07
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1982-04-14	1	0.07
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1995-04-17	1	0.07
1972-04-03	1	0.07
2004-01-11	1	0.07
1977-01-26	1	0.07
1973-10-22	1	0.07
1956-12-17	1	0.07
1959-06-28	1	0.07
1990-05-27	1	0.07
1972-05-13	1	0.07
1955-07-09	1	0.07
1994-04-13	1	0.07
2003-02-15	1	0.07
1961-11-04	1	0.07
1973-07-07	1	0.07
1967-09-28	1	0.07
1996-10-21	1	0.07
1999-09-06	1	0.07
1956-11-29	1	0.07
2006-10-11	1	0.07
1970-07-17	1	0.07
1996-04-07	1	0.07
1970-09-10	1	0.07
1969-05-31	1	0.07
1956-07-16	1	0.07
1955-01-20	1	0.07
1998-03-19	1	0.07
1998-06-08	1	0.07
1975-05-23	1	0.07
1989-07-18	1	0.07
1966-12-15	1	0.07
1972-01-11	1	0.07
1965-08-05	1	0.07
2006-04-30	1	0.07
1997-12-17	1	0.07
1997-08-07	1	0.07
1958-11-27	1	0.07

1955-08-26	1	0.07
1991-06-01	1	0.07
1999-10-02	1	0.07
2004-12-22	1	0.07
1992-11-17	1	0.07
1974-07-21	1	0.07
1979-03-10	1	0.07
1990-11-07	1	0.07
1992-07-10	1	0.07
1965-11-05	1	0.07
1955-11-23	1	0.07
2006-08-17	1	0.07
1978-07-17	1	0.07
1960-11-17	1	0.07
2002-08-26	1	0.07
1994-03-24	1	0.07
1970-10-11	1	0.07
1957-07-05	1	0.07
1988-03-12	1	0.07
1973-03-15	1	0.07
1956-10-20	1	0.07
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1990-04-15	1	0.07
1983-03-10	1	0.07
1971-05-22	1	0.07
1957-11-18	1	0.07
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1979-10-18	1	0.07
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1988-01-20	1	0.07
1986-01-15	1	0.07
1989-01-08	1	0.07
1973-06-17	1	0.07
1956-05-27	1	0.07
1974-11-01	1	0.07
1963-09-02	1	0.07
1958-05-04	1	0.07
1976-05-23	1	0.07
1976-06-16	1	0.07

2000-01-15	1	0.07
2005-09-02	1	0.07
1999-06-03	1	0.07
1997-01-22	1	0.07
1980-01-22	1	0.07
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1973-10-09	1	0.07
1981-07-23	1	0.07
1971-08-23	1	0.07
1988-04-25	1	0.07
2000-09-10	1	0.07
1954-08-24	1	0.07
1976-01-20	1	0.07
2000-12-27	1	0.07
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1989-07-07	1	0.07
1970-09-27	1	0.07
1998-09-07	1	0.07
1999-08-10	1	0.07
1962-02-01	1	0.07
1995-07-05	1	0.07
2001-02-17	1	0.07
1961-06-18	1	0.07
1960-05-23	1	0.07
1963-02-13	1	0.07
1993-04-09	1	0.07
1998-11-21	1	0.07
2003-07-29	1	0.07
1954-12-18	1	0.07
1956-08-01	1	0.07
1966-09-09	1	0.07
1966-07-16	1	0.07
1975-05-25	1	0.07
2000-11-23	1	0.07
1978-04-19	1	0.07
1974-10-08	1	0.07
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1955-02-16	1	0.07
1969-12-16	1	0.07
2006-08-14	1	0.07
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1964-11-24	1	0.07

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2005-08-11	1	0.07
1975-06-23	1	0.07
1969-11-06	1	0.07
1996-02-23	1	0.07
1969-12-05	1	0.07
1986-04-11	1	0.07
1998-08-04	1	0.07
1993-11-07	1	0.07
1997-09-17	1	0.07
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2002-08-03	1	0.07
1979-01-24	1	0.07
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1972-05-05	1	0.07
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1995-09-27	1	0.07
1975-02-28	1	0.07
1998-06-11	1	0.07
2000-05-28	1	0.07
2006-03-16	1	0.07
1974-12-07	1	0.07
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1987-10-14	1	0.07
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1976-12-30	1	0.07
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1973-01-10	1	0.07
1965-01-06	1	0.07
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1980-07-06	1	0.07
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1969-08-20	1	0.07
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1971-08-08	1	0.07
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1971-12-10	1	0.07
1990-10-20	1	0.07
1979-05-12	1	0.07
1955-06-13	1	0.07
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1993-10-08	1	0.07
1982-02-12	1	0.07
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1978-08-21	1	0.07
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1972-04-08	1	0.07
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1972-05-24	1	0.07
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1970-11-09	1	0.07
1961-04-16	1	0.07
1983-08-06	1	0.07
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1989-05-12	1	0.07
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1984-03-05	1	0.07
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1993-03-06	1	0.07
1983-05-10	1	0.07
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1978-11-26	1	0.07
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1959-02-13	1	0.07

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1991-08-31	1	0.07
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1991-06-28	1	0.07
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1994-12-05	1	0.07
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1966-10-10	1	0.07
1972-02-23	1	0.07
2005-06-27	1	0.07
1989-05-22	1	0.07
1984-11-14	1	0.07
1982-11-23	1	0.07
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2003-11-13	1	0.07
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1959-06-12	1	0.07
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1990-07-11	1	0.07
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1990-02-25	1	0.07
1975-03-14	1	0.07
2003-09-23	1	0.07
1963-06-16	1	0.07
1974-08-02	1	0.07
1969-05-15	1	0.07
1977-10-30	1	0.07
1978-09-27	1	0.07
2004-10-28	1	0.07
2005-03-09	1	0.07
1974-12-04	1	0.07
1959-12-19	1	0.07
1980-09-19	1	0.07
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2000-05-11	1	0.07
1954-12-30	1	0.07
1968-02-02	1	0.07
1966-08-22	1	0.07
1961-10-13	1	0.07
1995-11-07	1	0.07
1994-11-21	1	0.07
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2002-06-21	1	0.07
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1974-05-30	1	0.07
1958-09-03	1	0.07
1989-06-27	1	0.07
1996-08-21	1	0.07
1988-08-12	1	0.07
1972-02-18	1	0.07
1969-10-02	1	0.07
1955-03-16	1	0.07
1963-08-15	1	0.07
1998-07-17	1	0.07
1966-06-23	1	0.07
1957-07-28	1	0.07
1995-09-26	1	0.07
1977-10-12	1	0.07
1994-10-01	1	0.07
1965-12-28	1	0.07
1981-07-31	1	0.07
1986-05-02	1	0.07
1965-07-14	1	0.07

2004-09-07	1	0.07
1974-01-06	1	0.07
1976-02-27	1	0.07
1981-12-02	1	0.07
1981-04-01	1	0.07
1989-09-07	1	0.07
1996-03-21	1	0.07
1957-01-13	1	0.07
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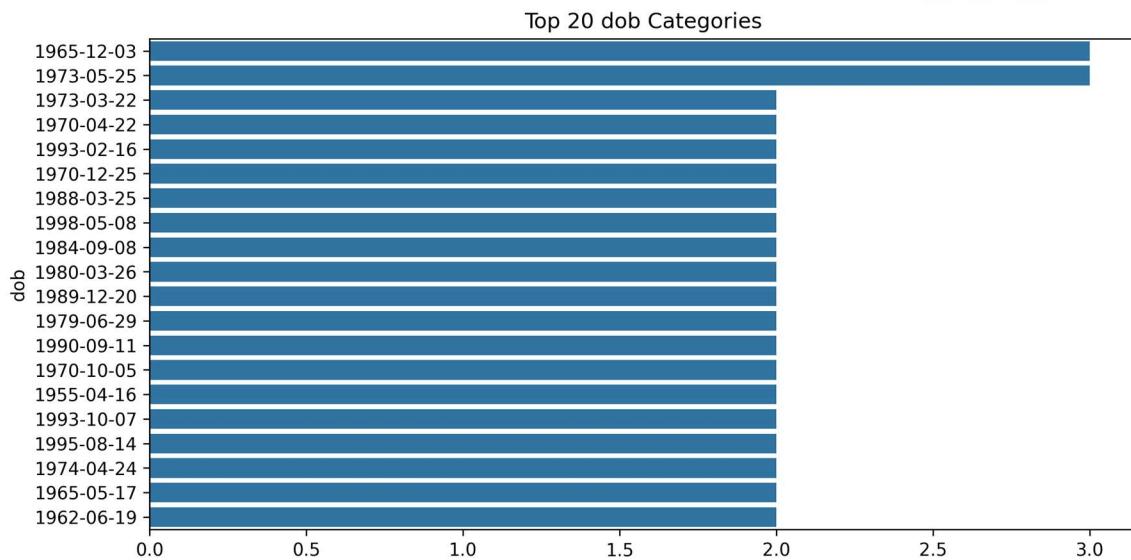
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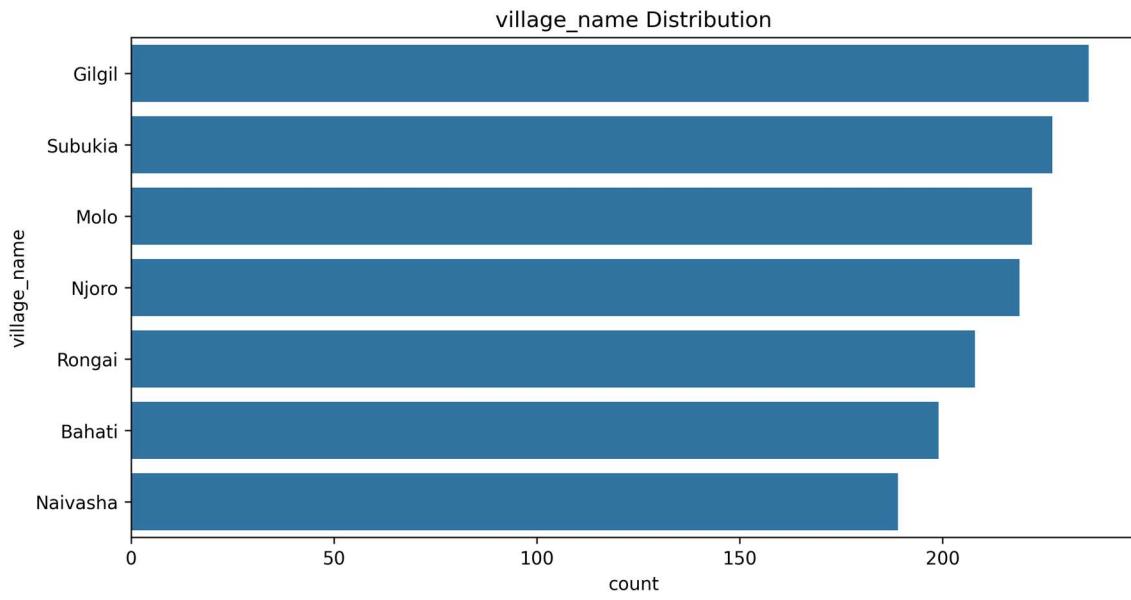
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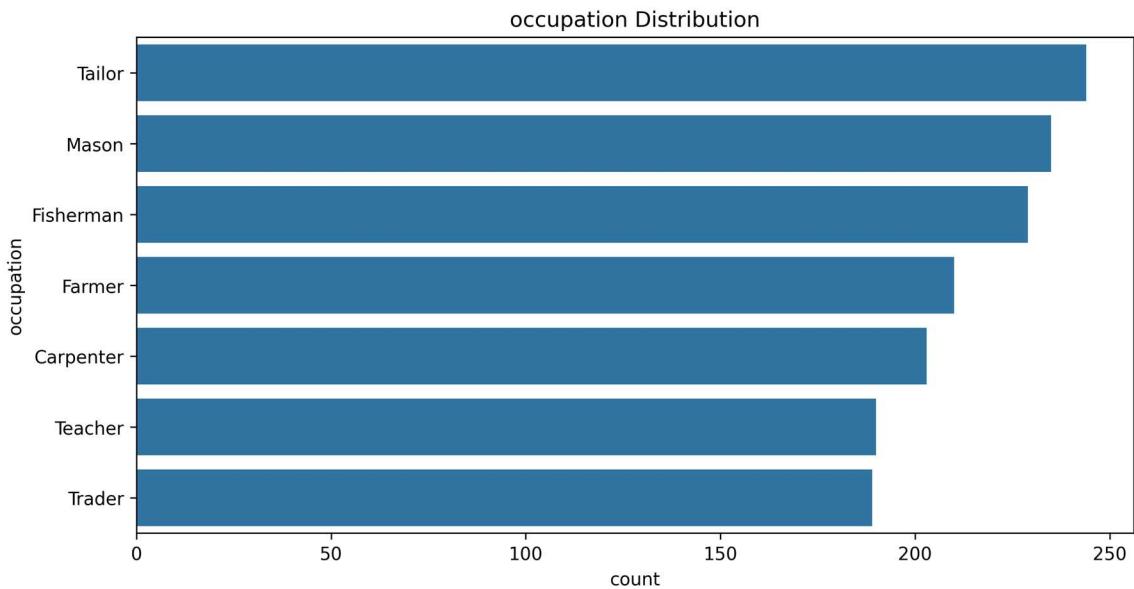
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	Count	Percentage
village_name		
Gilgil	236	15.73
Subukia	227	15.13
Molo	222	14.80
Njoro	219	14.60
Rongai	208	13.87
Bahati	199	13.27
Naivasha	189	12.60



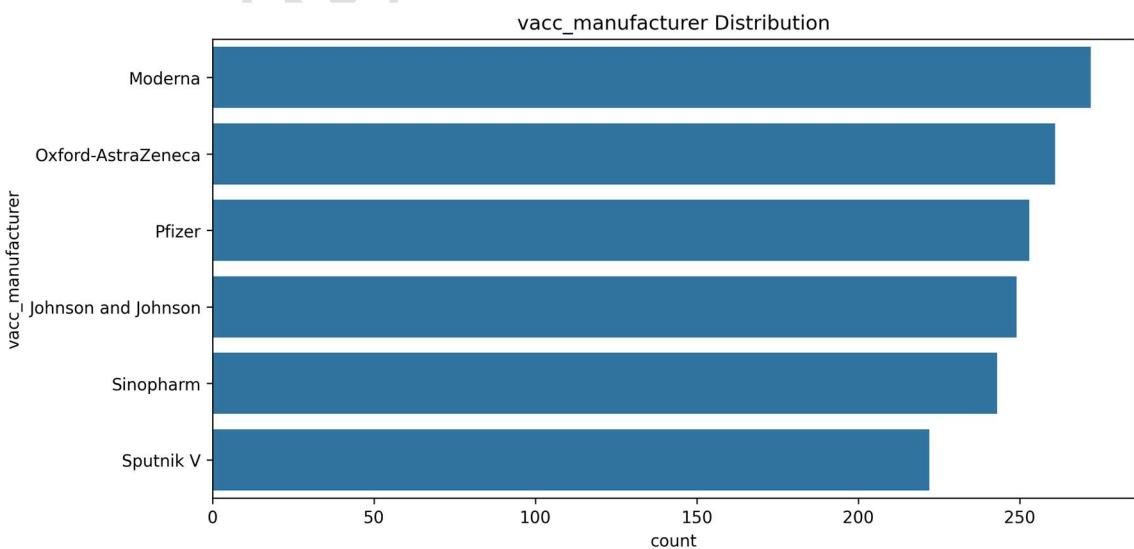
occupation Distribution:

occupation	Count	Percentage
Tailor	244	16.27
Mason	235	15.67
Fisherman	229	15.27
Farmer	210	14.00
Carpenter	203	13.53
Teacher	190	12.67
Trader	189	12.60



vacc_manufacturer Distribution:

	Count	Percentage
vacc_manufacturer		
Moderna	272	18.13
Oxford-AstraZeneca	261	17.40
Pfizer	253	16.87
Johnson and Johnson	249	16.60
Sinopharm	243	16.20
Sputnik V	222	14.80



E. ⏳ No temporal columns found

F. ⚙ CORRELATION ANALYSIS

- ◆ Categorical-Numerical Relationships:

Boxplot of age_on_first_vacc by sex: