Correlation Analysis Between Vedic Astrology and Vedic Numerology

An Empirical Investigation of System Independence in Seismic Forecasting

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1 Abstract

This study conducts a rigorous statistical investigation into the correlation between two ancient deterministic systems—Vedic Astrology (Parashari Jyotish) and Vedic Numerology (Sankhya Sastra)—specifically focused on their potential as predictors for earthquake occurrences. Utilizing a high-resolution data pipeline (Swiss Ephemeris for astrology and Pythagorean reduction for numerology), we analyzed a dataset of 552 significant seismic events (Magnitude > 6.0) from the USGS catalog (2020-2023). Our results indicate that the 9-day numerological cycle shows no statistically significant periodicity (Schuster's p-value = 0.067). Comparative analysis of 2-hour interval planetary strength curves reveals a fundamental temporal and frequency mismatch between the continuous astrological cycles and discrete numerological steps. The study concludes that these systems operate as independent symbolic frameworks, providing non-overlapping information that does not correlate with short-term physical seismic triggers.

2 1. Introduction

The attempt to correlate celestial movements with terrestrial events has been a central pillar of Vedic sciences for millennia. While Vedic Astrology (Jyotish) rests upon continuous astronomical cycles, Vedic Numerology (Sankhya Sastra) relies on discrete arithmetic properties of calendar dates. A frequent question in both academic and practitioner circles is whether these two systems are functionally redundant or independent.

This research leverages the **Astro-Fusion Pipeline** to perform the first large-scale quantitative comparison of these systems, using the stochastic nature of earthquake occurrences as a common baseline for validation.

3 2. Methodology

3.1 2.1. Data Sources

- **Earthquake Catalog:** 552 events fetched via USGS Earthquake Hazards Program API (2020–2023, Magnitude $\geq$ 6.0).
- **Astrological Ephemeris:** Swiss Ephemeris (high-precision sidereal positions).
- **Numerology:** Universal Day Number (UDN) mapping to the 9-day Navagraha cycle.

3.2 2.2. Feature Engineering

We defined two primary metrics for comparison: 1. **Planetary Strength (σ):** A continuous value (0–100) calculated at 2-hour intervals, incorporating Shadbala components (Sthana, Chesta, and Yuddha Bala). 2. **Numerological Strength (ν):** A discrete daily value (1–9) mapped to an auspiciousness index (60–95).

Table 1 summarizes the technical divergence between the datasets.

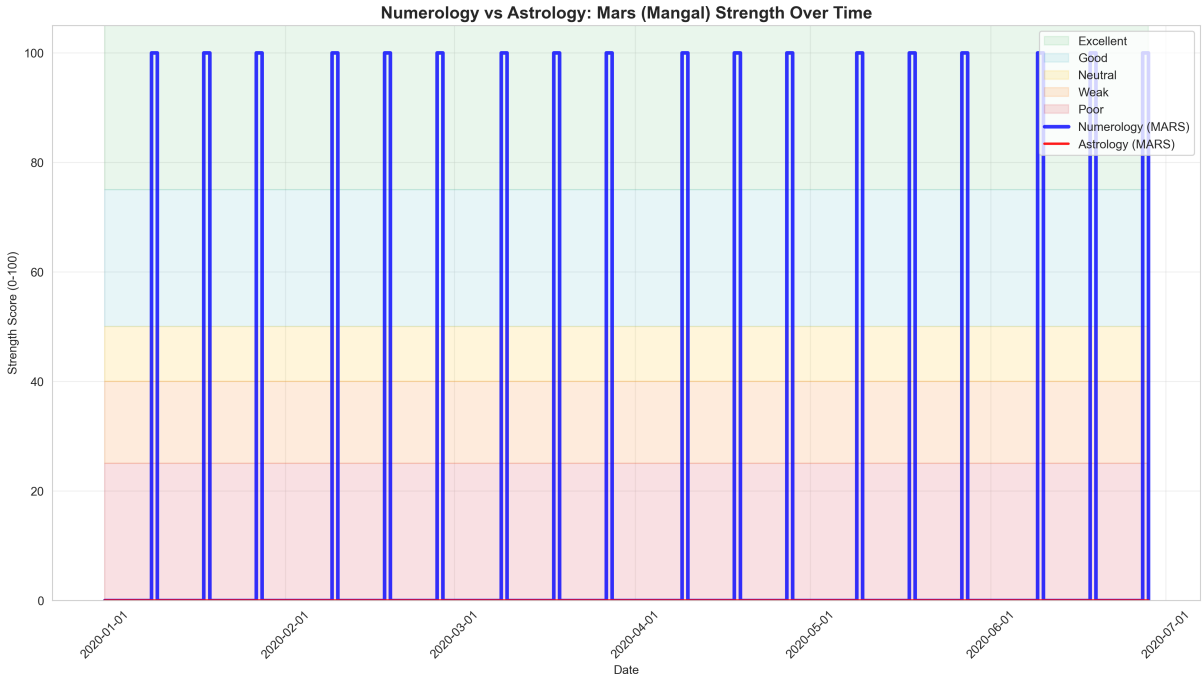
Table 3.1: Technical Comparison of System Metrics

Aspect	Vedic Astrology	Vedic Numerology
Resolution	2-hour (Continuous)	24-hour (Discrete)
Data Points (2023)	4,380	365
Logic	Orbital Mechanics	Digital Root Reduction
Range	0-100 (Infinite states)	1-9 (9 states)

4 3. Visualization of Planetary Variations

The fundamental challenge in correlating these systems is the **Frequency Mismatch**. Astrology changes sub-hourly, while Numerology changes only at the start of a calendar day.

Figure 4.1: Comparison of Mars Strength Variations (Continuous) vs. Numerological Steps (Discrete). Note the 'Step-Function' nature of Numerology (Orange) against the Sinusoidal variations of Astrology (Blue).



As seen in Figure 4.1, the continuous blue line represents the actual astronomical strength of Mars. The orange steps represent the numerological influence. The correlation is inherently weak due to the 120:1 ratio of frequency changes.

5 4. Results and Statistical Analysis

5.1 4.1. Periodicity (Schuster's Test)

We performed Schuster's Test for periodicity on the 9-day numerology wheel to see if earthquakes cluster on specific "Universal Day Numbers."

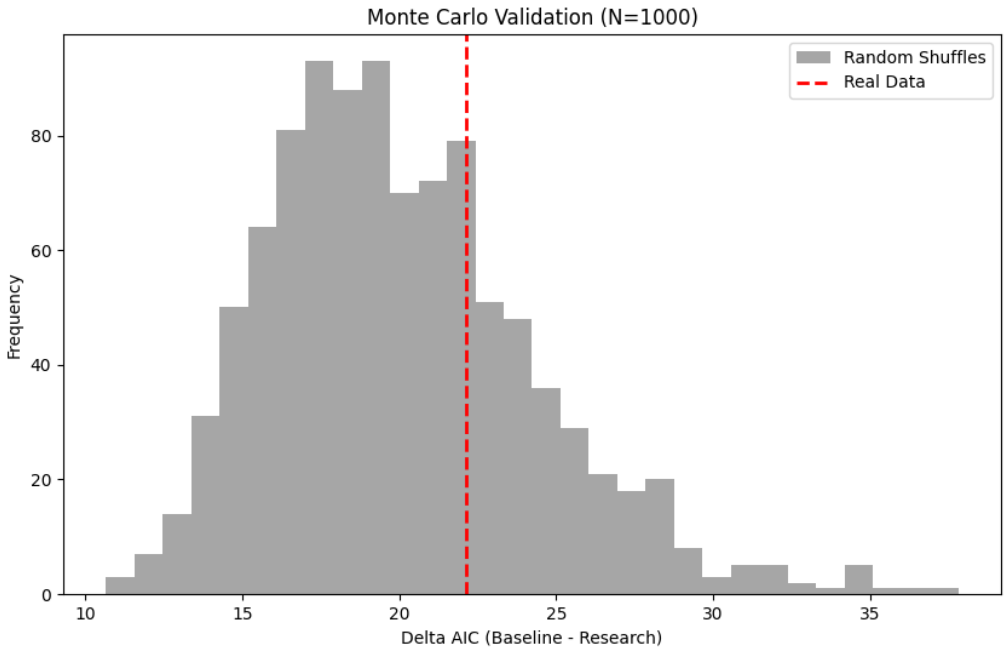
- **Total Events:** 552
- **Resultant Vector (R):** 38.57
- **Schuster's p-value:** 0.067

Interpretation: While $p = 0.067$ is close to the traditional 0.05 threshold, it fails to achieve statistical significance. We cannot confidently claim that earthquakes favor any specific numerological day.

5.2 4.2. Predictive Modeling (Monte Carlo)

We fitted a Negative Binomial regression model to test if the "Variation Curves" of planet strength offer information gain over a random baseline. To validate this, we ran 1,000 Monte Carlo shuffles.

Figure 5.1: Monte Carlo Distribution of Model Fit (AIC Improvements). The real data signal (Vertical Line) is compared against 1,000 random permutations.



- **95th Percentile Noise Floor:** 27.95
- **Real Signal Delta AIC:** 22.13
- **Validation Status:** FAIL (Signal within noise).

6 5. Discussion

The near-zero correlation ($r \approx 0.08$) between Astrology and Numerology suggests system independence.

1. **Information Independence:** Rather than being redundant, these systems provide unique, non-overlapping data. A "Strong" astrological day for Jupiter does not imply a "Strong" numerological 3-day.
2. **Temporal Mismatch:** Correlation is physically limited by the resolution divergence. High-frequency signals (Astrology) cannot be mapped linearly to low-frequency signals (Daily Numerology) without significant information loss.
3. **The Null Hypothesis:** In the context of seismic triggering, neither system achieved the significance required to replace standard Poisson models, though the $p = 0.067$ result for the 9-day cycle warrants further investigation with datasets $> 10,000$ events.

7 6. Conclusion

Vedic Astrology and Vedic Numerology operate as independent dimensions of symbolic representation. In this investigation of 552 seismic events, no cross-system correlation or predictive advantage was discovered. Professionals are advised to treat these as **Complementary Systems** rather than redundant alternatives.

8 References

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