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Do these prediction trends seem realistic based on the current job market landscape? I used a historical dataset and made predictions of 2022. Would you say this is realistic? I used the arima model for this.

Based on the graph you've shared, I have some observations about your job posting prediction model:

The prediction trend shows a seasonal or cyclical pattern, which is generally realistic for job markets that often have seasonal hiring patterns. However, there are a few concerns I notice:

- There's a significant gap between your historical data (blue line ending around Oct 2021) and your predictions (red line starting around Dec 2021). This creates uncertainty about model continuity.
- 2. The historical data shows extreme volatility (particularly the spike in Aug 2021 to over 4000 postings, followed by a sharp decline). Your predictions show a more moderate cycle, which may not capture the true volatility if the pattern from 2021 continues.
- 3. Using ARIMA for this type of forecasting is reasonable, but the dramatic differences between the patterns in your historical and predicted data suggest that:
 - · Either your model might not be capturing the underlying patterns well
 - · Or the job market fundamentally changed between these periods

For a more realistic model, I would recommend:

- Ensuring you have enough historical data (at least 2-3 years if possible)
- · Checking for seasonality patterns across multiple years
- Considering external factors that might influence job postings (economic indicators, industry trends)
- · Validating model parameters through cross-validation

Without knowing the specific skills or industry this represents, it's difficult to say whether the overall prediction volumes are realistic. However, the cyclical pattern with higher volumes in Q1 and Q2 does align with typical hiring patterns in many industries.

Would you like me to suggest ways to improve the prediction model or analyze specific aspects of the forecast in more detail?