



Covid Market Modeling

Pavan Chaitanya Penagamuri, Sz-Wei Charng, Artur Rocha, Joshua Reifel, Viswa Jayasankar, Krishnan Unni

The Data Mine Corporate Partners Symposium 2024

Obbvie

Seasonal Auto-regressive Integrated Moving-Average (SARIMA)

Generalized linear mixed models

- Required too much memory
- More time for Bayesian methods

Utilizing a massive dataset of nearly 120 million rows, we modeled COVID cases, identifying peak months and recurring patterns in patient diagnoses. Through meticulous data sampling and time-series analysis using SARIMA modeling, we forecasted COVID cases across the USA, emphasizing the

Acknowledgements