**UNIVERSITY OF WINDSOR**

**MASTER OF APPLIED COMPUTING**

**Project/Internship II – COMP 8977 Winter 2021**

# Forecasting Manpower Demand during Covid-19 Pandemic using AI Predictive Analytics Tools

**Group number: 17**

Submitted by:

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Submitted to:

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**Milestone 2:**

| Iteration | Task | Description | Date |
|---|---|---|---|
| 1 | Basic Analysis | Measuring trends, seasons and patterns through basic time series analysis | 25 – 30 February |
| 2 | AR model | Finding the results using Auto Regression model | 1 – 5 March |
| 3 | MA model | Repeating the whole thing using Moving Average Model | 5 – 10 March |
| 4 | ARIMA | Tried to combine both model for better prediction | 11 – 20 March |

**List if any user requirements/features/components that you still need to work on it before the final submission.**

➢ During talk with data scientist Dr. Kumkaran who is working at rocket innovation studio in Windsor, he advised to add financial indexes like GDP, SNP500 to get the more of the accuracy in predictions. So we will me adding more features to our model.

**Do you think any of the user requirements/features/components that you can't complete as you planned? If yes, list those and explain why.**

➢ In the previous phase, after completion of Milestone 1 we have decided to implement more models and compare results that would not be possible now as we have more of the time in making data useful by performing data preprocessing.

**GitHub:** https://github.com/satyapal123/Forecasting-Manpower-Demand-during-Covid-19-Pandemic-using-AI-Predictive-Analytics-Tools