**The COVID-19 outbreak and effects on major stock market indices across the globe: A machine learning approach**

**Supplementary Material**

**APPENDIX A**

**Table A.1:** Selected World Indices

|  |  |  |
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| **S/N** | **Index** | **Symbol** |
|  | ALL ORDINARIES | AORD |
|  | BEL 20 | BFX |
|  | CAC 40 | FCHI |
|  | Cboe UK 100 Price Return | BUK100P |
|  | CBOE Volatility Index | VIX |
|  | DAX PERFORMANCE-INDEX | GDAXI |
|  | Dow Jones Industrial Average | DJI |
|  | ESTX 50 P.R.EUR | STOXX50E |
|  | EURONEXT 100 | N100 |
|  | HANG SENG INDEX | HIS |
|  | IBOVESPA | BVSP |
|  | IPC MEXICO | MXX |
|  | Jakarta Composite Index | JKSE |
|  | KOSPI Composite Index | KS11 |
|  | MERVAL | MERV |
|  | MOEX Russia Index | IMOEX.ME |
|  | NASDAQ Composite | NASDAQ |
|  | Nikkei 225 | N225 |
|  | NYSE AMEX COMPOSITE INDEX | XAX |
|  | NYSE COMPOSITE (DJ) | NYA |
|  | Russell 2000 | RUT |
|  | S&P BSE SENSEX | BSESN |
|  | S&P/ASX 200 | AXJO |
|  | S&P/CLX IPSA | IPSA |
|  | S&P/NZX 50 INDEX GROSS | NZ50 |
|  | S&P/TSX Composite index | GSPTSE |
|  | S&P 500 | GSPC |
|  | SSE Composite Index | 000001.SS |
|  | TA-125 | TA125.TA |
|  | TSEC weighted index | TWII |

|  |  |
| --- | --- |
| (A) | (B) |
| (C) | (D) |
| (E) | (F) |
| (G) | (H) |
| (I) | (J) |

**Figure A.1**: Visualisation of word stock market indices

|  |  |
| --- | --- |
| (A) | (B) |
| (C) | (D) |
| (E) | (F) |
| (G) | (H) |
| **Figure A.2:** Visualisation of world market indices between March 2019 to March 2020  (I) | (K) |

|  |  |
| --- | --- |
| (A) | (B) |
| (C) | (D) |
| (E) | (F) |
| (G) | (H) |
| (I) | (J) |

**Figure A.3:** Visualisation of world market indices between March 2019 to March 2020

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**Figure A.4:** Fluctuation in opening price against COVID-19 infection and mortality rate between March 2019 to March 2020

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**Figure A.5:** Fluctuation in opening price against COVID-19 infection and mortality rate between March 2019 to March 2020