**סיכום תוצאות:**

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| **Alpha Investing (alpha=0.05, dw=0.05)** | | | | | | |
| **DS** | **Window** | **OL Algorithm** | | | | |
|  |  | **K-Nearest Neighbors(k=3)** | **K-Nearest Neighbors(k=5)** | **Naive Bayes** | **Neural Network** | **Random Forest** |
| Chlorine Concentration | 300 | 0.4029 | 0.4056 | 0.5457 | 0.2272 | 0.4765 |
| 500 | 0.4837 | 0.4911 | 0.5504 | 0.4380 | 0.5596 |
| Electric Devices | 300 | 0.7785 | 0.7716 | 0.3394 | 0.1997 | 0.2496 |
| 500 | 0.7263 | 0.7084 | 0.4449 | 0.3360 | 0.2403 |
| Ethanol Level | 300 | 0.3940 | 0.4068 | 0.3983 | 0.3172 | 0.3770 |
| 500 | 0.4175 | 0.3936 | 0.3300 | 0.2565 | 0.3658 |
| Ford A | 300 | 0.4872 | 0.4872 | 0.4872 | 0.4920 | 0 |
| 500 | 0.4864 | 0.4864 | 0.4864 | 0.4989 | 0 |
| Non Invasive Fetal ECG Thorax1 | 300 | 0.0961 | 0.0973 | 0.1305 | 0.0517 | 0.1002 |
| 500 | 0.4228 | 0.4286 | 0.4737 | 0.0524 | 0.3251 |
| Semg Hand Subject Ch2 | 300 | 0.3289 | 0.3773 | 0.4107 | 0.2621 | 0.3222 |
| 500 | 0.7343 | 0.7393 | 0.4085 | 0.4511 | 0.2231 |
| Two Patterns | 300 | 0.3733 | 0.3560 | 0.3645 | 0.3728 | 0.3618 |
| 500 | 0.3745 | 0.3670 | 0.3619 | 0.3610 | 0.3590 |
| Wafer | 300 | 0.8941 | 0.8941 | 0.8941 | 0.9353 | 0 |
| 500 | 0.8937 | 0.8937 | 0.8937 | 0.9295 | 0 |
| Ozone | 300 | 0.9151 | 0.9271 | 0.9335 | 0.9335 | 0.9335 |
| 500 | 0.9303 | 0.9376 | 0.8788 | 0.7794 | 0.9412 |
| Refrigeration Devices | 300 | 0.3408 | 0.3318 | 0.3318 | 0.3563 | 0.3719 |
| 500 | 0.4096 | 0.4458 | 0.2129 | 0.0000 | 0.0241 |

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| **Fast OSFS (alpha=0.05)** | | | | | | |
| **DS** | **Window** | **OL Algorithm** | | | | |
|  |  | **K-Nearest Neighbors(k=3)** | **K-Nearest Neighbors(k=5)** | **Naive Bayes** | **Neural Network** | **Random Forest** |
| Chlorine Concentration | 300 | 0.5265 | 0.5085 | 0.5537 | 0.4241 | 0.5397 |
| 500 | 0.5962 | 0.5696 | 0.5578 | 0.3975 | 0.5570 |
| Electric Devices | 300 | 0.7739 | 0.7565 | 0.3927 | 0.1842 | 0.2496 |
| 500 | 0.7242 | 0.7062 | 0.4153 | 0.2778 | 0.2403 |
| Ethanol Level | 300 | 0.5704 | 0.5733 | 0.3172 | 0.4495 | 0.4780 |
| 500 | 0.6123 | 0.6163 | 0.3936 | 0.3121 | 0.4533 |
| Ford A | 300 | 0.4872 | 0.4872 | 0.4872 | 0.5249 | 0 |
| 500 | 0.4864 | 0.4864 | 0.4864 | 0.4993 | 0 |
| Non Invasive Fetal ECG Thorax1 | 300 | 0.2278 | 0.2448 | 0.3225 | 0.1247 | 0.0687 |
| 500 | 0.3143 | 0.3315 | 0.4406 | 0.1149 | 0.2825 |
| Semg Hand Subject Ch2 | 300 | 0.4674 | 0.4858 | 0.4140 | 0.0952 | 0.3022 |
| 500 | 0.6441 | 0.6892 | 0.3885 | 0.2231 | 0.2256 |
| Two Patterns | 300 | 0.4039 | 0.4029 | 0.4003 | 0.3362 | 0.3965 |
| 500 | 0.4314 | 0.4399 | 0.3823 | 0.3201 | 0.3870 |
| Wafer | 300 | 0.8941 | 0.8941 | 0.8941 | 0.5464 | 0 |
| 500 | 0.8937 | 0.8937 | 0.8937 | 0.8609 | 0 |
| Ozone | 300 | 0.9227 | 0.9290 | 0.8422 | 0.9259 | 0.9335 |
| 500 | 0.9390 | 0.9405 | 0.9405 | 0.9107 | 0.9427 |
| Refrigeration Devices | 300 | 0.2962 | 0.2383 | 0.3229 | 0.2940 | 0.4432 |
| 500 | 0.4096 | 0.4257 | 0.2570 | 0.1968 | 0.0000 |

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| **OSFS (alpha=0.05)** | | | | | | |
| **DS** | **Window** | **OL Algorithm** | | | | |
|  |  | **K-Nearest Neighbors(k=3)** | **K-Nearest Neighbors(k=5)** | **Naive Bayes** | **Neural Network** | **Random Forest** |
| Chlorine Concentration | 300 | 0.4685 | 0.4675 | 0.5342 | 0.5369 | 0.4843 |
| 500 | 0.5796 | 0.5691 | 0.5659 | 0.3673 | 0.5717 |
| Electric Devices | 300 | 0.7729 | 0.7539 | 0.4443 | 0.1527 | 0.2541 |
| 500 | 0.7268 | 0.7142 | 0.4307 | 0.2770 | 0.2495 |
| Ethanol Level | 300 | 0.5007 | 0.5078 | 0.4040 | 0.2603 | 0.4580 |
| 500 | 0.5308 | 0.5626 | 0.4791 | 0.3797 | 0.5348 |
| Ford A | 300 | 0.4872 | 0.4872 | 0.4872 | 0.5026 | 0 |
| 500 | 0.4864 | 0.4864 | 0.4864 | 0.4991 | 0 |
| Non Invasive Fetal ECG Thorax1 | 300 | 0.0947 | 0.1039 | 0.1596 | 0.0632 | 0.0970 |
| 500 | 0.1612 | 0.0656 | 0.3012 | 0.0996 | 0.1783 |
| Semg Hand Subject Ch2 | 300 | 0.4524 | 0.4541 | 0.4274 | 0.1970 | 0.2421 |
| 500 | 0.6441 | 0.6792 | 0.4010 | 0.4085 | 0.1855 |
| Two Patterns | 300 | 0.3856 | 0.3903 | 0.3605 | 0.2609 | 0.3556 |
| 500 | 0.4799 | 0.4772 | 0.3801 | 0.3596 | 0.3890 |
| Wafer | 300 | 0.8941 | 0.8941 | 0.8941 | 0.5464 | 0 |
| 500 | 0.8937 | 0.8937 | 0.8937 | 0.8693 | 0 |
| Ozone | 300 | 0.9284 | 0.9328 | 0.9189 | 0.8973 | 0.9335 |
| 500 | 0.9318 | 0.9434 | 0.9383 | 0.9369 | 0.9412 |
| Refrigeration Devices | 300 | 0.2628 | 0.2205 | 0.3140 | 0.3073 | 0.4432 |
| 500 | 0.3333 | 0.3855 | 0.2530 | 0.1767 | 0.0000 |

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| **SAOLA (alpha=0.05)** | | | | | | |
| **DS** | **Window** | **OL Algorithm** | | | | |
|  |  | **K-Nearest Neighbors(k=3)** | **K-Nearest Neighbors(k=5)** | **Naive Bayes** | **Neural Network** | **Random Forest** |
| Chlorine Concentration | 300 | 0.4905 | 0.4820 | 0.5472 | 0.3470 | 0.4863 |
| 500 | 0.4932 | 0.4908 | 0.5481 | 0.3689 | 0.5194 |
| Electric Devices | 300 | 0.7388 | 0.7160 | 0.4020 | 0.1663 | 0.2496 |
| 500 | 0.7074 | 0.6651 | 0.3895 | 0.2097 | 0.2807 |
| Ethanol Level | 300 | 0.3201 | 0.3286 | 0.3940 | 0.2461 | 0.3286 |
| 500 | 0.3360 | 0.3320 | 0.3837 | 0.2485 | 0.3499 |
| Ford A | 300 | 0.4872 | 0.4872 | 0.4872 | 0.5087 | 0 |
| 500 | 0.4864 | 0.4864 | 0.4864 | 0.4973 | 0 |
| Non Invasive Fetal ECG Thorax1 | 300 | 0.1980 | 0.2024 | 0.2760 | 0.0808 | 0.1856 |
| 500 | 0.1976 | 0.2230 | 0.2739 | 0.1057 | 0.1881 |
| Semg Hand Subject Ch2 | 300 | 0.2988 | 0.2871 | 0.3055 | 0.2721 | 0.2972 |
| 500 | 0.4461 | 0.4862 | 0.3183 | 0.2757 | 0.2757 |
| Two Patterns | 300 | 0.3337 | 0.3354 | 0.3360 | 0.3299 | 0.3277 |
| 500 | 0.3305 | 0.3379 | 0.3441 | 0.3198 | 0.3421 |
| Wafer | 300 | 0.8941 | 0.8941 | 0.8941 | 0.8941 | 0 |
| 500 | 0.8937 | 0.8937 | 0.8937 | 0.8538 | 0 |
| Ozone | 300 | 0.9221 | 0.9297 | 0.9335 | 0.9335 | 0.9360 |
| 500 | 0.9325 | 0.9405 | 0.9412 | 0.9412 | 0.8701 |
| Refrigeration Devices | 300 | 0.2895 | 0.2806 | 0.3274 | 0.3385 | 0.4432 |
| 500 | 0.4297 | 0.4337 | 0.2289 | 0.2410 | 0.0000 |

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| **FIRES (lr\_mu=0.01, lr\_sigma=0.01)** | | | | | | |
| **DS** | **Window** | **OL Algorithm** | | | | |
|  |  | **K-Nearest Neighbors(k=3)** | **K-Nearest Neighbors(k=5)** | **Naive Bayes** | **Neural Network** | **Random Forest** |
| Chlorine Concentration | 300 | 0.5494 | 0.5379 | 0.5504 | 0.4616 | 0.5215 |
| 500 | 0.5583 | 0.5510 | 0.5447 | 0.4614 | 0.5326 |
| Electric Devices | 300 | 0.9182 | 0.9119 | 0.7940 | 0.7230 | 0.7383 |
| 500 | 0.8856 | 0.8743 | 0.7886 | 0.6627 | 0.7351 |
| Ethanol Level | 300 | 0.6700 | 0.6842 | 0.6558 | 0.7568 | 0.7027 |
| 500 | 0.6441 | 0.6938 | 0.6561 | 0.7475 | 0.7495 |
| Ford A | 300 | 0.4961 | 0.4978 | 0.5039 | 0.5050 | 0.5173 |
| 500 | 0.5118 | 0.5086 | 0.5034 | 0.4900 | 0.4959 |
| Non Invasive Fetal ECG Thorax1 | 300 | 0.9694 | 0.9708 | 0.9039 | 0.9717 | 0.9726 |
| 500 | 0.9672 | 0.9715 | 0.8336 | 0.9718 | 0.9718 |
| Semg Hand Subject Ch2 | 300 | 0.8564 | 0.8731 | 0.7262 | 0.6728 | 0.8497 |
| 500 | 0.9298 | 0.9348 | 0.6441 | 0.8546 | 0.3759 |
| Two Patterns | 300 | 0.7157 | 0.7321 | 0.7476 | 0.7402 | 0.7419 |
| 500 | 0.6955 | 0.7133 | 0.7488 | 0.7015 | 0.7402 |
| Wafer | 300 | 0.9204 | 0.9121 | 0.8655 | 0.9088 | 0.9063 |
| 500 | 0.9379 | 0.9320 | 0.8186 | 0.8510 | 0.9271 |
| Ozone | 300 | 0.9259 | 0.9271 | 0.9335 | 0.9335 | 0.9335 |
| 500 | 0.9325 | 0.9325 | 0.9427 | 0.9412 | 0.9398 |
| Refrigeration Devices | 300 | 0.5813 | 0.5791 | 0.6169 | 0.5256 | 0.7216 |
| 500 | 0.6867 | 0.7149 | 0.6586 | 0.4378 | 0.0000 |

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| **WITH-OUT OFS** | | | | | | |
| **DS** | **Window** | **OL Algorithm** | | | | |
|  |  | **K-Nearest Neighbors(k=3)** | **K-Nearest Neighbors(k=5)** | **Naive Bayes** | **Neural Network** | **Random Forest** |
| Chlorine Concentration | 300 | 0.5057 | 0.4965 | 0.3882 | 0.5607 | 0.5344 |
| 500 | 0.5654 | 0.5363 | 0.3896 | 0.5058 | 0.5667 |
| Electric Devices | 300 | 0.8153 | 0.7944 | 0.5707 | 0.2119 | 0.2496 |
| 500 | 0.7697 | 0.7501 | 0.5698 | 0.3376 | 0.2403 |
| Ethanol Level | 300 | 0.2674 | 0.2788 | 0.2461 | 0.2617 | 0.3656 |
| 500 | 0.2604 | 0.2386 | 0.2485 | 0.2903 | 0.3579 |
| Ford A | 300 | 0.4872 | 0.4872 | 0.4872 | 0.5022 | 0 |
| 500 | 0.4864 | 0.4864 | 0.4864 | 0.4998 | 0 |
| Non Invasive Fetal ECG Thorax1 | 300 | 0.6902 | 0.6697 | 0.6917 | 0.3155 | 0.6085 |
| 500 | 0.7457 | 0.7341 | 0.6945 | 0.3064 | 0.7295 |
| Semg Hand Subject Ch2 | 300 | 0.6277 | 0.5876 | 0.0000 | 0.5509 | 0.3339 |
| 500 | 0.8371 | 0.8596 | 0.0000 | 0.8095 | 0.2431 |
| Two Patterns | 300 | 0.6357 | 0.5923 | 0.4756 | 0.6667 | 0.4409 |
| 500 | 0.7304 | 0.6922 | 0.4768 | 0.6962 | 0.4663 |
| Wafer | 300 | 0.8941 | 0.8941 | 0.8941 | 0.8999 | 0 |
| 500 | 0.8937 | 0.8937 | 0.8937 | 0.8967 | 0 |
| Ozone | 300 | 0.9221 | 0.9297 | 0.6401 | 0.9335 | 0.9335 |
| 500 | 0.9296 | 0.9354 | 0.6604 | 0.9412 | 0.9412 |
| Refrigeration Devices | 300 | 0.2851 | 0.2472 | 0.0000 | 0.3296 | 0.4432 |
| 500 | 0.4096 | 0.4096 | 0.0000 | 0.3012 | 0.0000 |