

Virtual No-Code Data Science Certification Training

>> Class Registration is now Open <<



All Roads Lead to Machine Learning and AI
What path are you on?

No-Code Data Science Academy



Co-Founders and Faculty:

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Robert E Hoyt MD FACP FAMIA

High-End No-Code Data Science (ML/AI) is Possible

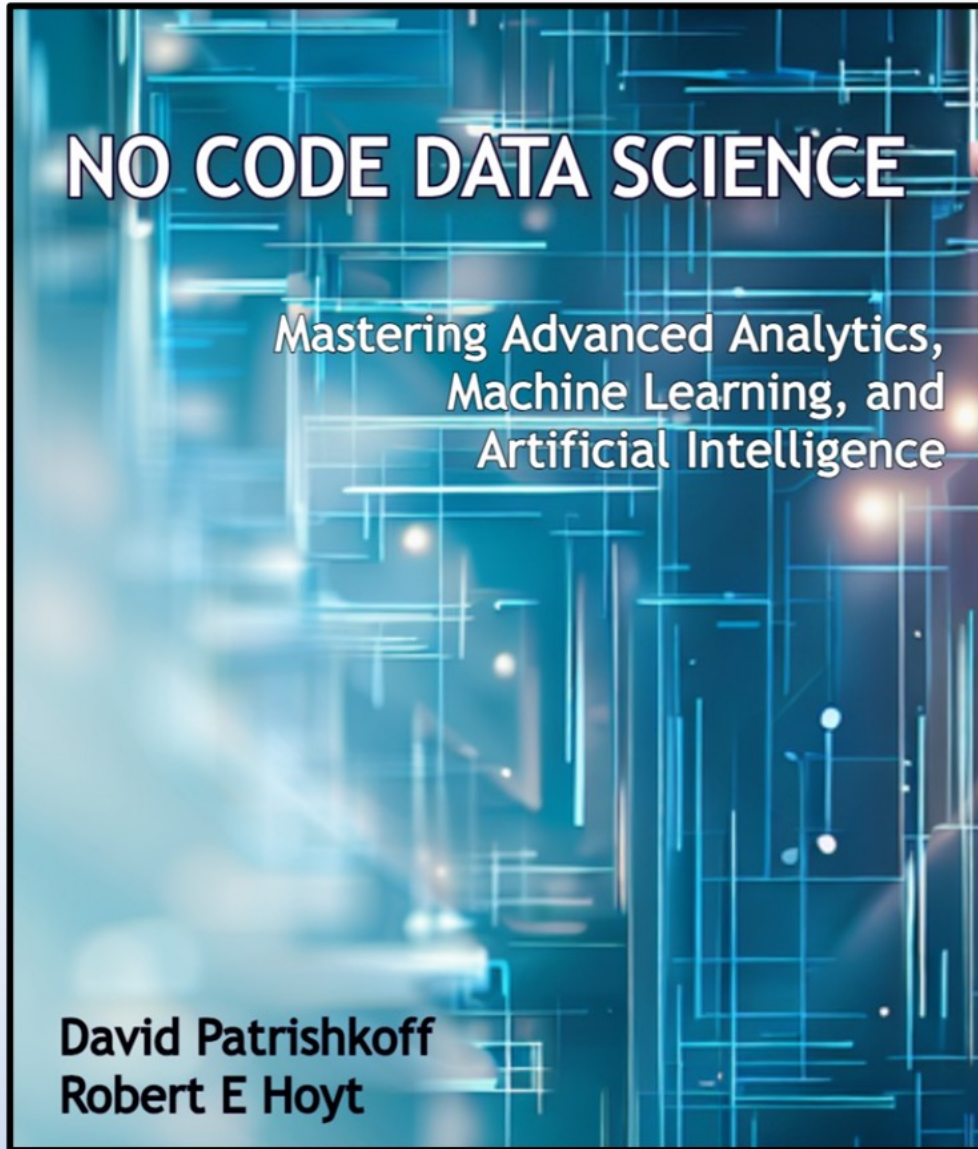
Our training will be based on our new textbook published in October 2023

- **Level 1 Fundamentals Cert Class (8 weeks):** no projects
- **Level 2 Practitioner Cert Class (12 weeks):** 8 projects
- **Level 3 Advanced Practitioner Cert Class (12 weeks):** 12 projects

2024 Training and Certification Schedule

- **2024 Training for Level 1 Certification (8 weeks):** 1/12/2024 to 3/1/2024: All classes start at 6:00 PM EST on Fridays
- **2024 Training for Level 2 & 3 Certification (12 weeks):** 1/13/2024 to 3/30/2024. All classes start at 11:00 AM EST on Saturdays
- **A weekly Office hour** at 6PM EST on Mondays to answer questions

Additional training events to be published in early 2024



High-Performance No-Code Predictive Analytics (ML/AI) is Possible



Our Level 2 and 3 project-based certification class students will use our **private Kaggle data competitions** to fine-tune their skills and learn what it takes to compete against the best data scientists in the world ... with no-code tools

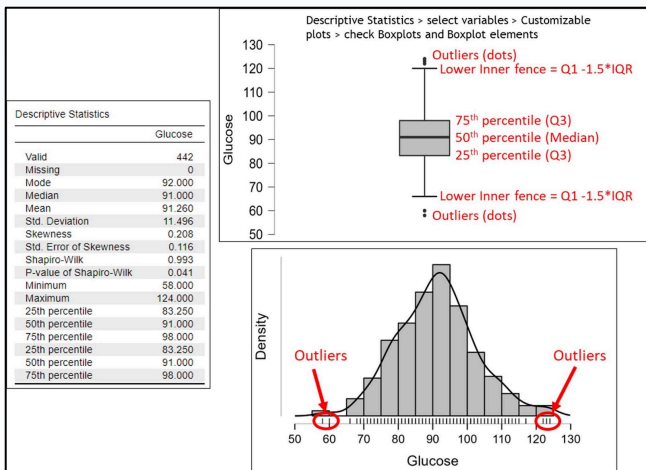
Our students will be trained in free open-source Software such as Orange, JASP, and BlueSky Statistics

No-Code Data Science Learning Goals for our Level 2 and 3 Classes

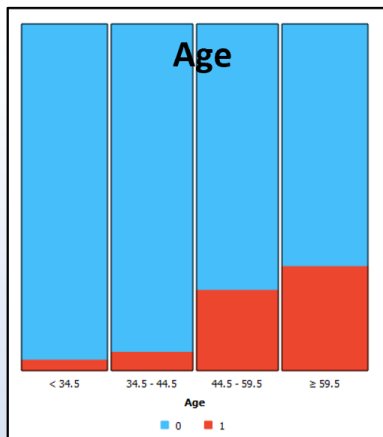
1. Conduct Data preparation and wrangling
2. Construct compelling data visualizations
3. Develop and evaluate predictive models
4. Conduct Time Series forecasts and survival analysis
5. Conducting Geolocation-based analysis
6. Implement Image Analytics Techniques
7. Master Text Mining Strategies
8. Explore the future of Continuous Improvement (CI) and Innovation on Demand (IOD) Techniques
9. Learn Super-Prompts to drive high-performance outputs from AI Chatbots to accelerate problem-solving and Innovation efforts

1. Data Preparation and Wrangling

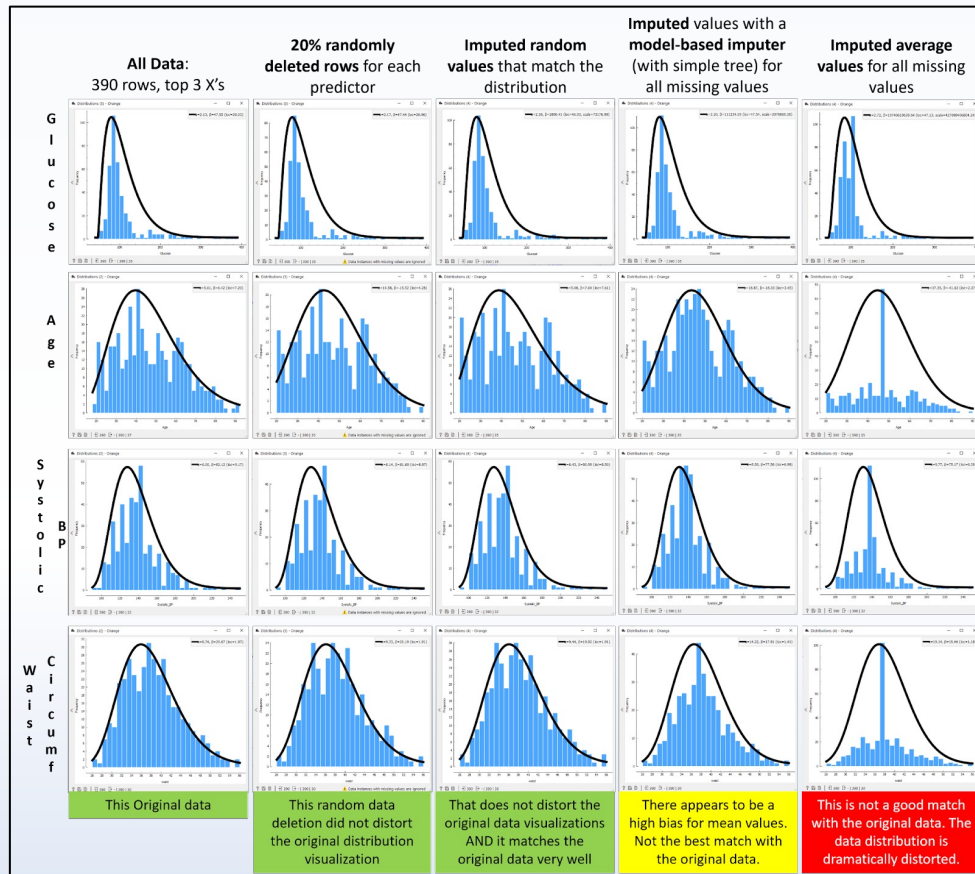
Reshaping Chaos into Clarity: Polishing and Prepping Data for Predictive Modeling



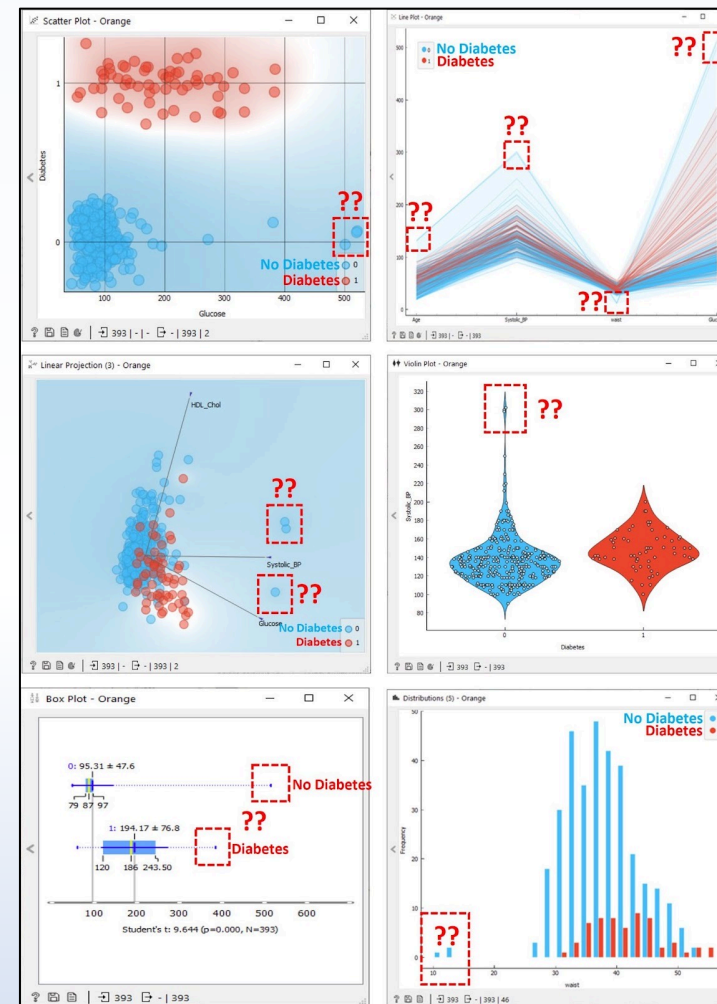
JASP Outlier analysis



Orange data binning



Orange Missing Data Imputation experiments

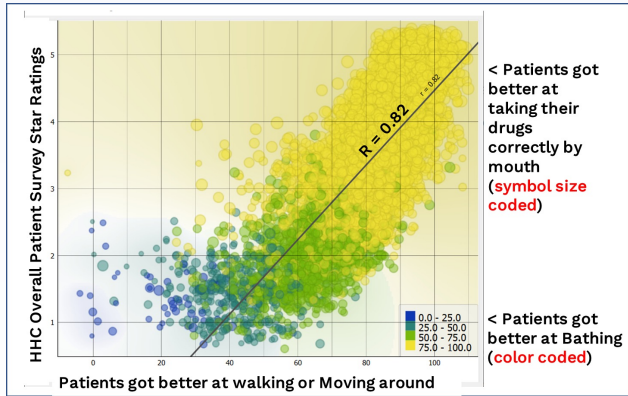


Orange data entry error identification

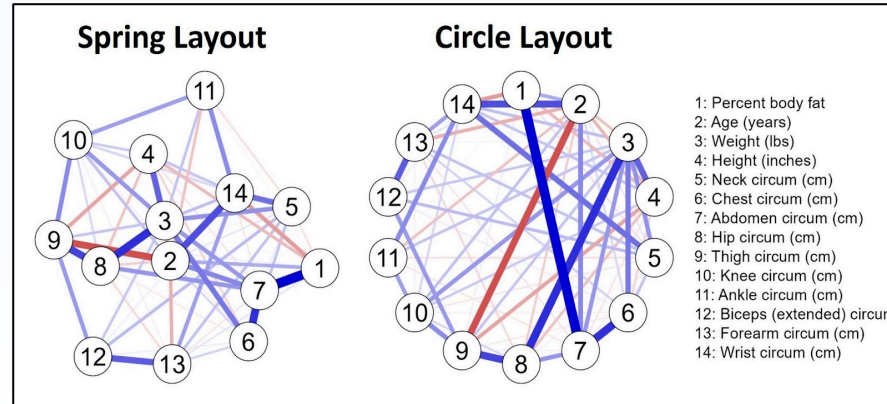
Orange, BlueSky, and JASP offers a wide variety of data prep and wrangling techniques

2. Constructing Compelling Data Visualizations

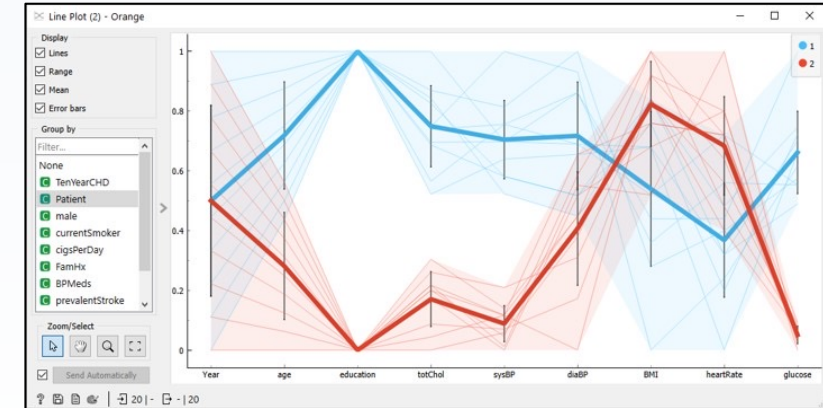
Painting Stories with Numbers



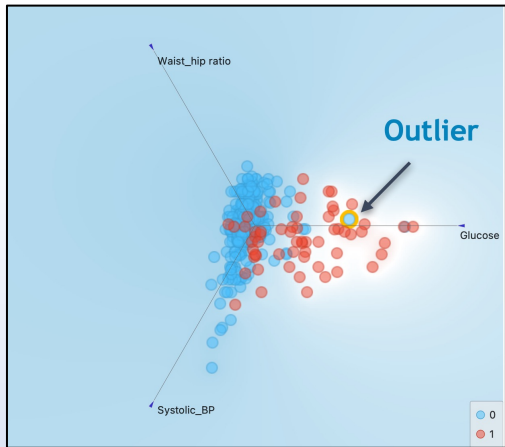
Orange Scatter Plot



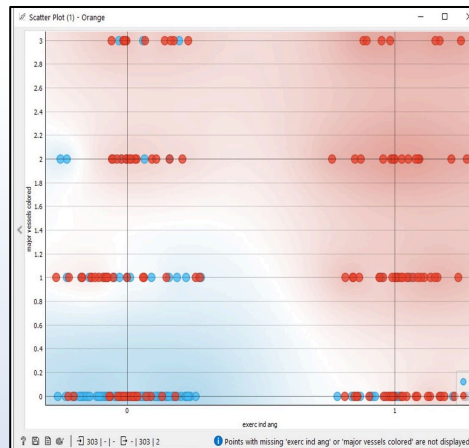
JASP Network / Correlation plots



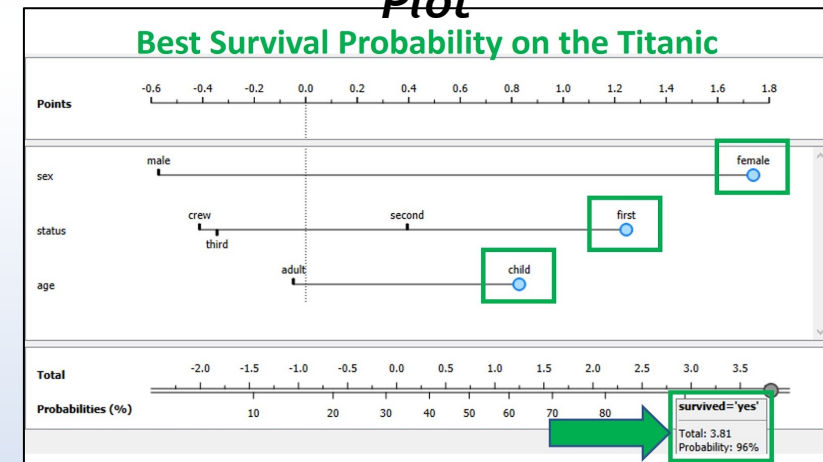
Orange Parallel Coordinates Plot



Orange 3D plot



Orange Scatter Plot

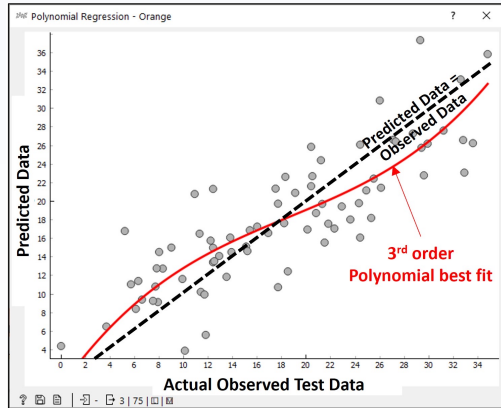


Orange Nomogram

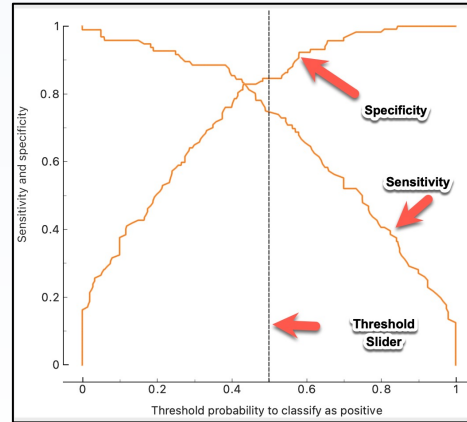
Orange, JASP, and BlueSky Statistics offers a wide variety of data visualizations

3. Developing and Evaluating Predictive Models

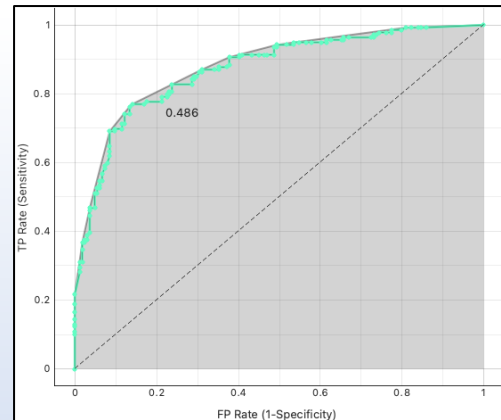
Forging Future Insights: Crafting and Calibrating Predictive Models



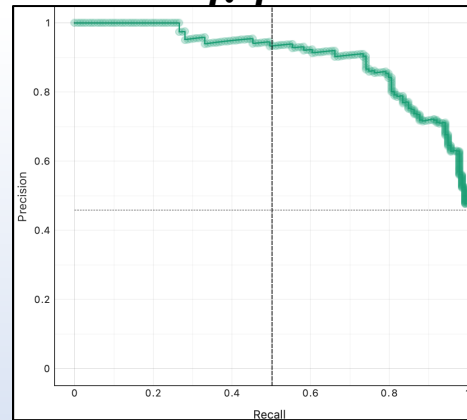
Orange Model Residuals analysis



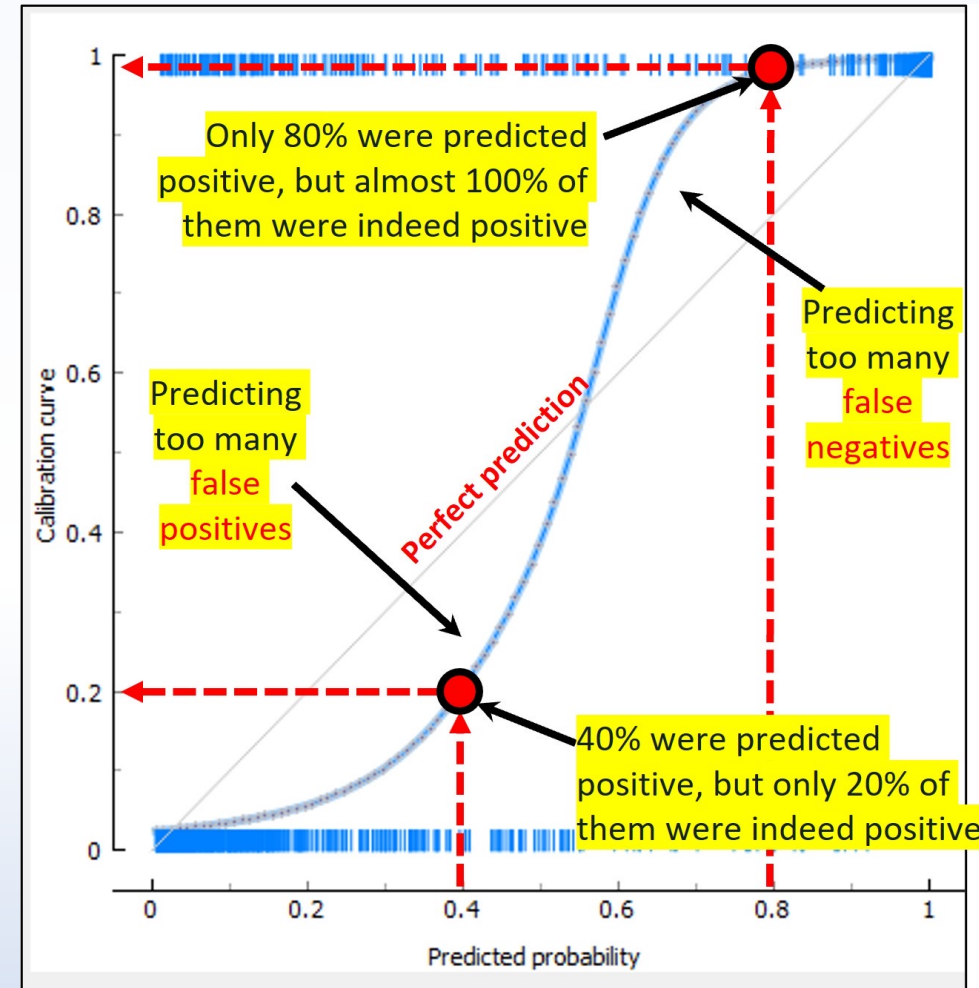
Orange Sensitivity vs Specificity plot with Threshold



Orange ROC Curve



Orange Precision-recall Curve

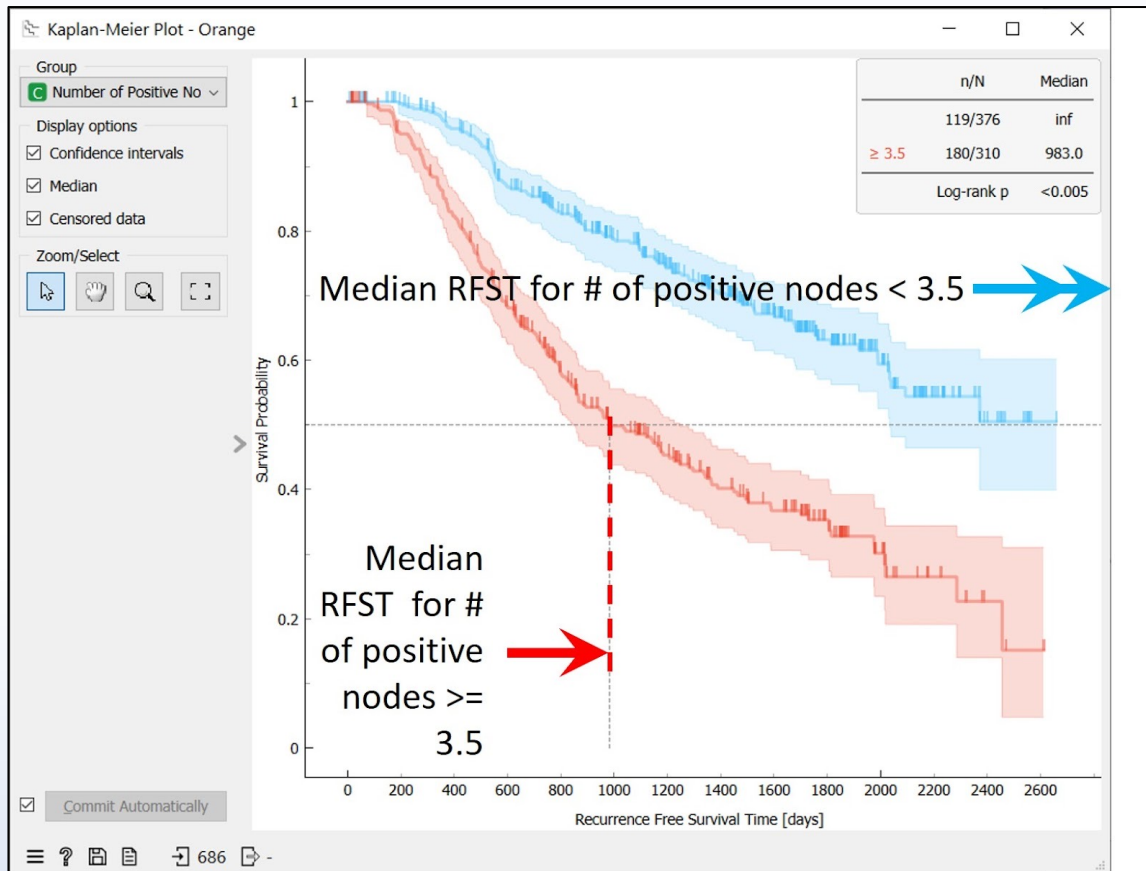


Orange model Calibration Curve

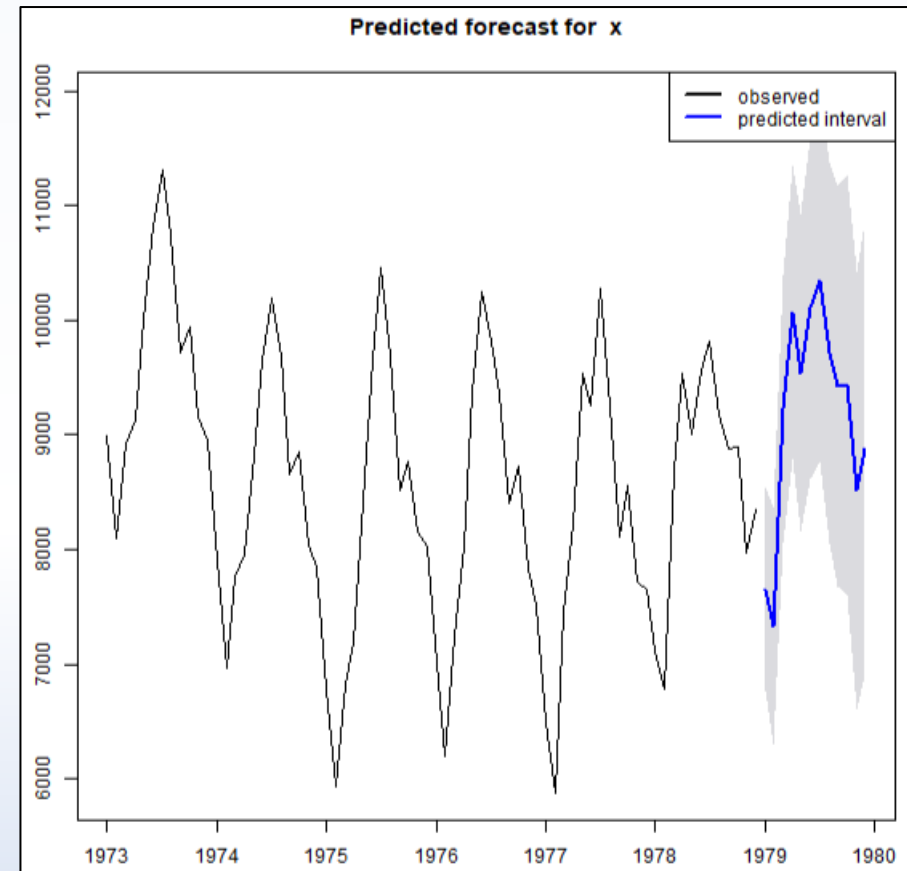
Orange, BlueSky, and JASP offers a wide range of model building and evaluation methods

4. Conducting Time Series Forecast and Survival Analysis

Unraveling Time's Tapestry: Mastering Forecasts and Lifelines with Analysis



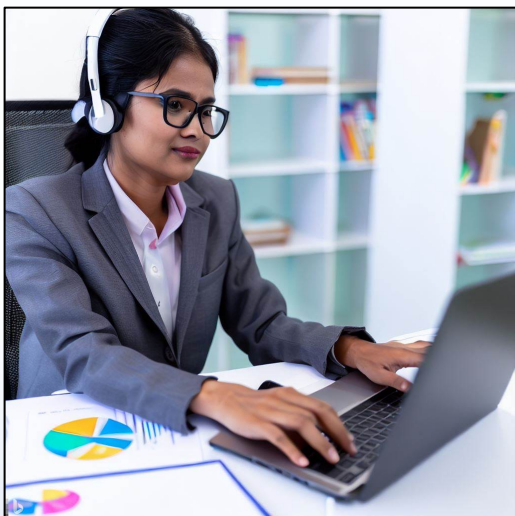
Recurrence times for breast cancer



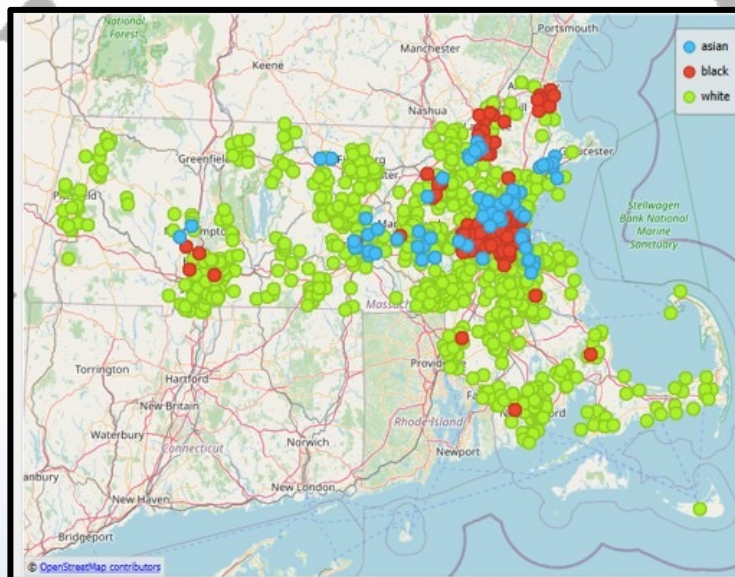
Orange and BlueSky offers Time Series Forecasting and Survival Analysis techniques

5. Conducting Geolocation-based Analysis

Merging Art, Geography, and Analytics



Analytical



Geospatial
Visualizations



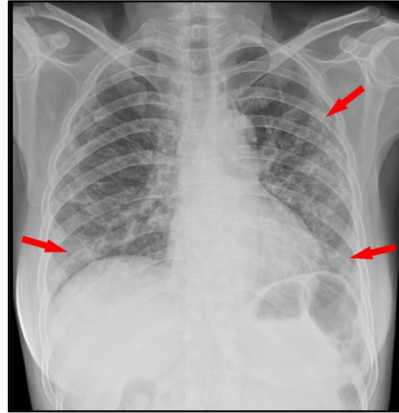
Creative

AI Images created by DALL-E

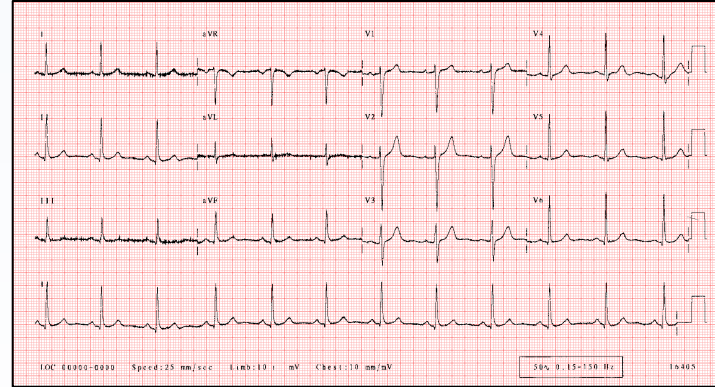
Orange and BlueSky offers Geo-Spatial Analysis techniques

6. Implementing Image Analytics Techniques

Picturing the Future: Predictive Insights with Image Analytics



Xray diagnoses

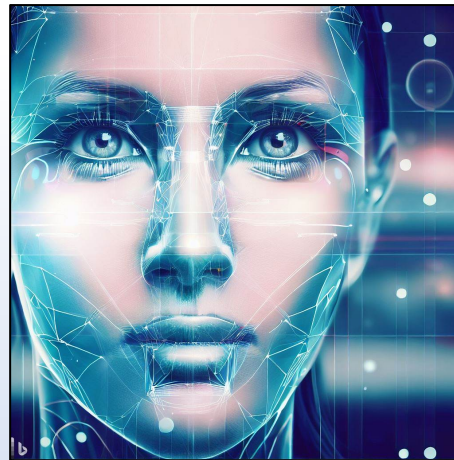


ECG diagnosis

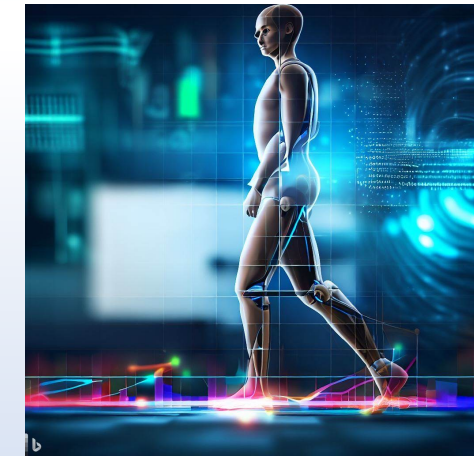


Mood detection

AI Images created by DALL-E



Facial recognition



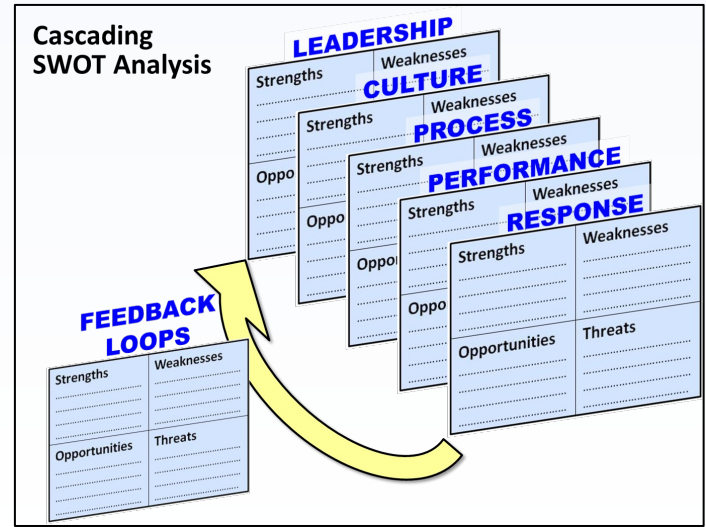
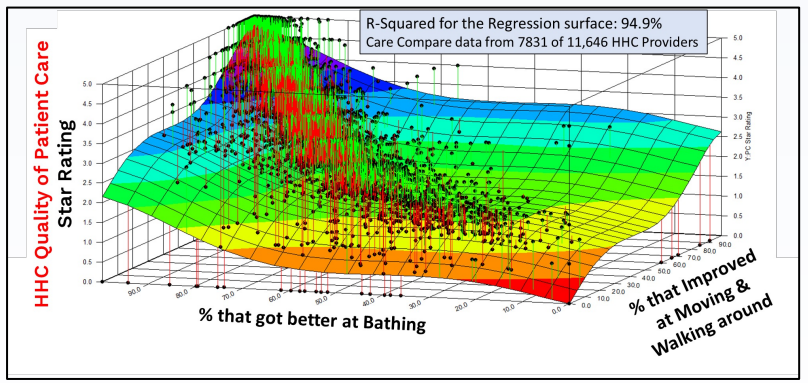
Posture / gait classification

Orange can provide a wide range of image detection, classification, and predictive analytics

8. Exploring the Future of Continuous Improvement (CI) Methodologies

Revolutionizing Efficiency: Disruptively Reinventing Lean Six Sigma and other CI Methodologies

with ML/AI



- The future of CI will focus on:
- Realtime and automated data analysis at the Gemba
 - Expanded cascading root cause analysis
 - Rapid continuous improvement
 - Organizational cultural risk identification and mitigation
 - AI chatbot support for all problem brainstorming activities
 - Integrated Predictive Analytics
 - ChatPDF access to improved processes and procedures

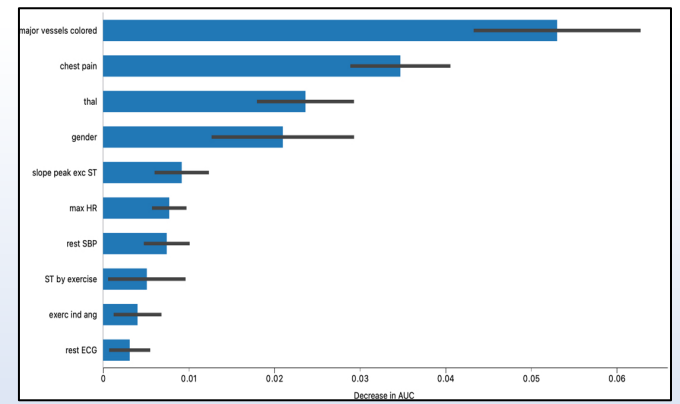
LSS Brainstorming to identify Projects to Reduce Manufacturing Waste

- 1. Defects, scrap, repair, redoing, fixing, mistakes, other errors in a process, missing or incorrect info, Internal / external customer complaints or missed deadlines**
- 2. Non-optimal Processes and NVA:** work, steps or resources used to perform a task that a customer sees no value in. Low capacity or capability, poor communications, lack of training / cross-training, too much done in series, not in parallel, redo loops are present, staff shortages, lack of innovation
- 3. Over-processing or over-production:** doing more than the customer requests, maybe you do not know what they really wants, over killing specs, too many redundant quality checks required that a customer would not directly want to pay for.
- 4. NVA Transportation:** movement or loops (actual or virtual) of material, products, inventory, products, paperwork or information
- 5. High Inventories of raw material, WIP and / or finished goods, safety stock Kanban not widely used, JIT delivery not implemented.**
- 6. Waiting:** slow upstream process, bottleneck, bureaucracy, equipment, machine or downtime, changeover times, redo loops, too many adjustments, material not available, actions not done, non-synchronized hand offs, confusing and complex processes, non-motivated staff, high maintenance processes, overburdened staff, can't get a win-win situation, slow development times, non-balanced cycle times, decisions not made, too long between the end of any process and the start of a new process step start

Expanded Root Cause Brainstorming

- 7. Material Flow inefficiencies** along the main flow of process steps for products being manufactured
- 8. Non-competitive Supply Chain:** High cost, low capability and too many suppliers with ineffective audits in place, not challenging & / or monitoring suppliers in their pursuits of effective productivity improvement & cost reduction initiatives
- 9. Inefficient Purchasing methods:** Not using economics-of-scale, no back-up plans, use of cheaper substitute materials with the same quality, consolidated purchases, e-business and e-bidding, etc
- 10. Needless Motion of people, vehicles, equipment that should be observed and spaghetti charted** noting the distance traveled for each step and the total distance traveled.
- 11. New Technology not applied to:** achieve error-proofing, high first time yields, process parameter data, automatic defect tracking for root cause analysis purposes, get higher output manufacturing processes, achieve cost reductions, quality checks
- 12. Variable and/or Fixed Costs are too high for:** labor, rent, borrowing interest rates, material, utilities (water, electric power, steam, etc.), contracted services, raw material, depreciation, benefits, group medical plans, travel expenses, etc.

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BlueSky Statistics covers every standard and advanced Six Sigma Data Analysis Technique

9. AI Chatbots can Dramatically Augment the Performance of Clinicians, Professionals and Continuous Improvement Projects



Conclusion

We hope to see you in one of our upcoming virtual classes



Register at: www.nocodedatascience.net > Certification tab
Contact DavidJohnPatrishkoff@gmail.com for more information