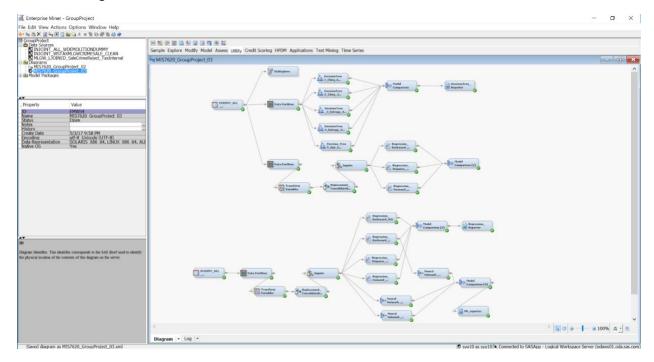
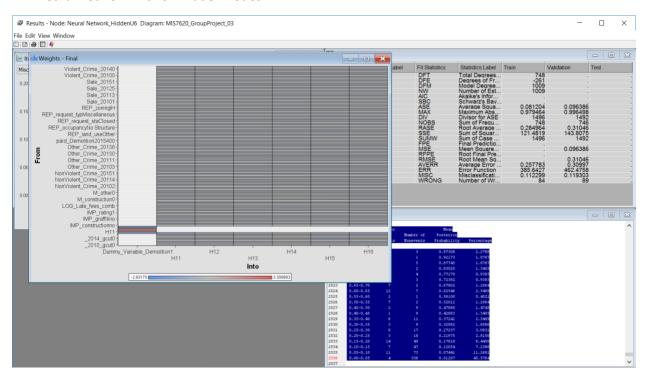
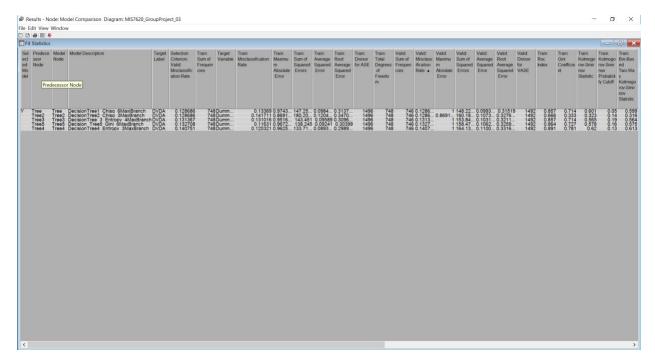
1. Minor diagrams



2. Neural network with six hidden nodes



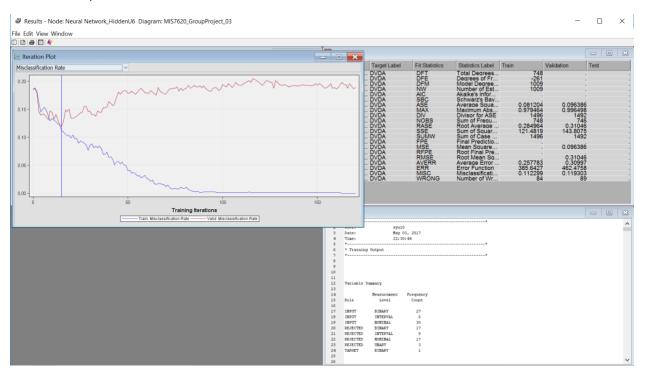
3. Fit statistics for decision trees

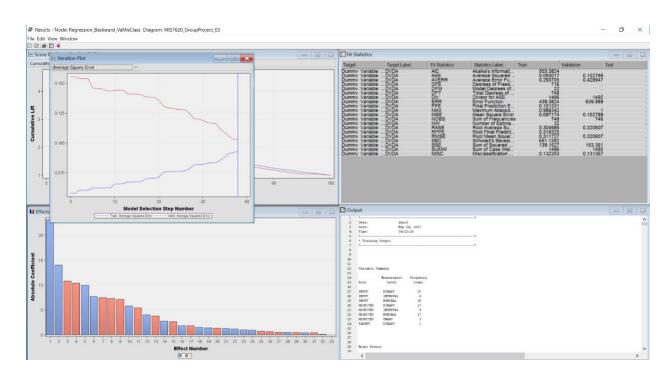


4. Transformation variables



5. Iteration plots for neural networks with six hidden units

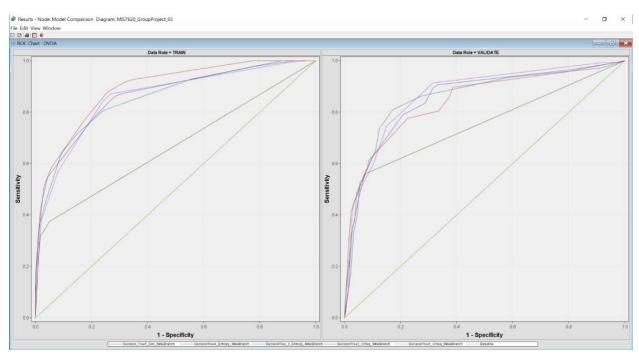




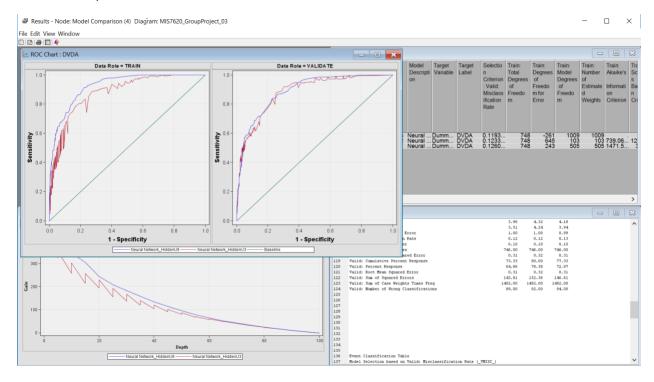
6. Nominal variable replacement

| Variable | Formatted Value | Replacement Value | Frequency Count | Туре | Character Unformatted Value | Numeric Value | |
|--------------------|------------------------------|----------------------|-----------------|------|--------------------------------|---------------|--|
| request_type | CE-Weeds Occupied Property | Weeds | 63C | | CE-Weeds Occupied Property . | | |
| request_type | CW-Weeds Vacant Houses | Weeds | 9C | | CW-Weeds Vacant Houses . | | |
| request_type | CW-Weeds Vacant Lots | Weeds | 2C | | CW-Weeds Vacant Lots . | | |
| zoning | RU-1 | RU | 196C | | RU-1 | | |
| zoning | RU-3 | RU | 30C | | RU-3 | | |
| zoning | RU-2 | RU | 4C | | RU-2 | | |
| zoning | R-6 | R | 402C | | R-6 | | |
| zoning | R-10 | R | 42C | | R-10 . | | |
| zoning | R-8 | R | 37C | | R-8 | | |
| request_type | CE-Code Miscellaneous | Miscellaneous | 226C | | CE-Code Miscellaneous . | | |
| request_type | SC-Mayors Action Center(MIS) | Miscellaneous | 1C | | SC-Mayors Action Center(MIS) . | | |
| zoning | CMU-1 | CMU | 8C | | CMU-1 | | |
| zoning | CMU-3 | СМИ | 6C | | CMU-3 | | |
| zoning | CMP-1 | СМР | 2C | | CMP-1 | | |
| request_type | | _UNKNOWN_ | 121C | | | | |
| request_status | | _UNKNOWN_ | 121C | | | | |
| occupancy | | _UNKNOWN_ | 72C | | | | |
| land_use | | _UNKNOWN_ | 79C | | | | |
| zoning | _UNKNOWN_ | _DEFAULT_ | . С | | | | |
| Violent_Crime_2014 | _UNKNOWN_ | _DEFAULT_ | . N | | | | |
| Violent_Crime_2013 | _UNKNOWN_ | _DEFAULT_ | . N | | | | |
| Violent_Crime_2010 | _UNKNOWN_ | _DEFAULT_ | . N | | | | |
| vehicle | _UNKNOWN_ | _DEFAULT_ | . C | | | | |
| trash | _UNKNOWN_ | _DEFAULT_ | . С | | | | |
| Sale_2016 | _UNKNOWN_ | _DEFAULT_ | . N | | | | |
| Sale_2015 | _UNKNOWN_ | _DEFAULT_ | . N | | | | |
| Sale_2013 | _UNKNOWN_ | _DEFAULT_ | . N | | | | |
| Sale_2012 | _UNKNOWN_ | _DEFAULT_ | . N | | | | |
| Sale_2011 | _UNKNOWN_ | _DEFAULT_ | . N | | | | |
| Sale_2010 | _UNKNOWN_ | _DEFAULT_ | . N | | | | |
| request_type | _UNKNOWN_ | _DEFAULT_ | . С | | | | |

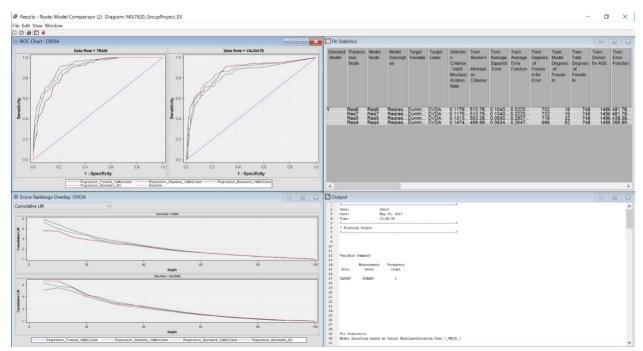
7. ROC chart for decision trees



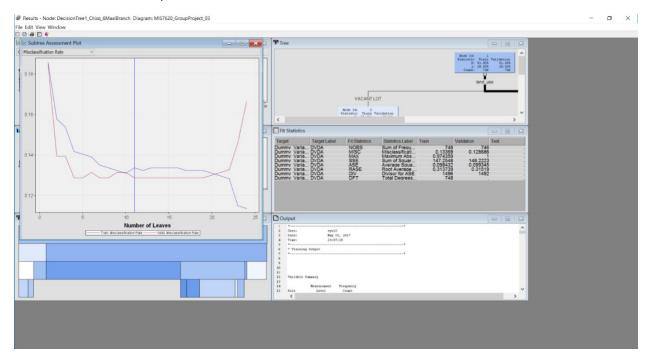
8. ROC comparison for neural network models



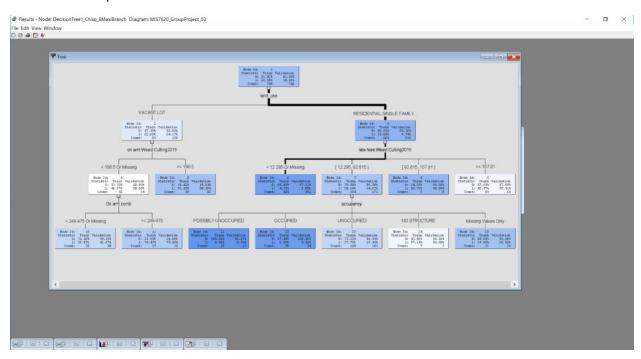
9. ROC comparison for regression models



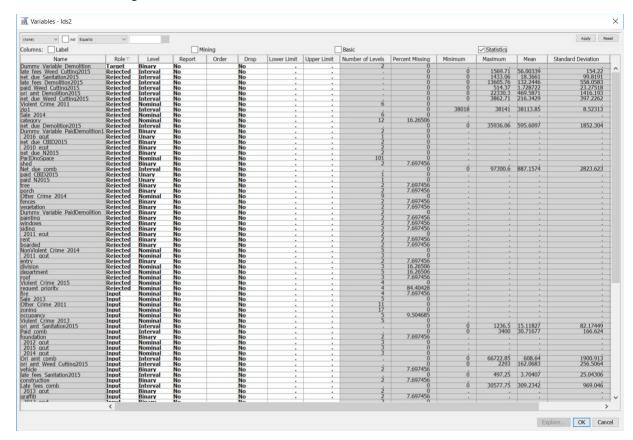
10. Subtree assessment plot for a decision tree



11. The tree map of a decision tree



12. Variables for regression and neural network models



13. Statistical exploration of input variables

