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    "import numpy as np\n",
    "import seaborn as sns\n",
    "import matplotlib\n",
    "import matplotlib.pyplot as plt\n",
    "import warnings\n",
    "import xgboost as xgb\n",
    "import lightgbm as lgb\n",
    "from scipy.stats import skew\n",
    "from scipy import stats\n",
    "from scipy.stats.stats import pearsonr\n",
    "from scipy.stats import norm\n",
    "from collections import Counter\n",
    "from sklearn.linear_model import LinearRegression,LassoCV, Ridge, LassoLarsCV,ElasticNetCV\n",
    "from sklearn.model_selection import GridSearchCV, cross_val_score, learning_curve\n",
    "from sklearn.ensemble import RandomForestRegressor, AdaBoostRegressor, ExtraTreesRegressor, GradientBoostingRegressor\n",
    "from sklearn.preprocessing import StandardScaler, Normalizer, RobustScaler\n",
    "warnings.filterwarnings('ignore')\n",
    "sns.set(style='white', context='notebook', palette='deep')\n",
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  "train.drop(\"Id\", axis = 1, inplace = True)\n",
  "test.drop(\"Id\", axis = 1, inplace = True)"
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    "all_data[\"Alley\"] = all_data[\"Alley\"].fillna(\"None\")\n",
    "all_data[\"Fence\"] = all_data[\"Fence\"].fillna(\"None\")\n",
    "all_data[\"FireplaceQu\"] = all_data[\"FireplaceQu\"].fillna(\"None\")\n",
    "all_data[\"LotFrontage\"] = all_data.groupby(\"Neighborhood\")[\"LotFrontage\"].transform(lambda x: x.fillna(x.median()))\n",
    "for col in ('GarageType', 'GarageFinish', 'GarageQual', 'GarageCond'):\n",
    "    all_data[col] = all_data[col].fillna('None')\n",
    "for col in ('GarageYrBlt', 'GarageArea', 'GarageCars'):\n",
    "    all_data[col] = all_data[col].fillna(0)\n",
    "for col in ('BsmtFinSF1', 'BsmtFinSF2', 'BsmtUnfSF','TotalBsmtSF', 'BsmtFullBath', 'BsmtHalfBath'):\n",
    "    all_data[col] = all_data[col].fillna(0)\n",
    "for col in ('BsmtQual', 'BsmtCond', 'BsmtExposure', 'BsmtFinType1', 'BsmtFinType2'):\n",
    "    all_data[col] = all_data[col].fillna('None')\n",
    "all_data[\"MasVnrType\"] = all_data[\"MasVnrType\"].fillna(\"None\")\n",
    "all_data[\"MasVnrArea\"] = all_data[\"MasVnrArea\"].fillna(0)\n",
    "all_data['MSZoning'] = all_data['MSZoning'].fillna(all_data['MSZoning'].mode()[0])\n",
    "all_data = all_data.drop(['Utilities'], axis=1)\n",
    "all_data[\"Functional\"] = all_data[\"Functional\"].fillna(\"Typ\")\n",
    "all_data['Electrical'] = all_data['Electrical'].fillna(all_data['Electrical'].mode()[0])\n",
    "all_data['KitchenQual'] = all_data['KitchenQual'].fillna(all_data['KitchenQual'].mode()[0])\n",
    "all_data['Exterior1st'] = all_data['Exterior1st'].fillna(all_data['Exterior1st'].mode()[0])\n",
    "all_data['Exterior2nd'] = all_data['Exterior2nd'].fillna(all_data['Exterior2nd'].mode()[0])\n",
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   "all_data_na = all_data_na.drop(all_data_na[all_data_na == 0].index).sort_values(ascending=False)\n",
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  "        'BsmtFinType2', 'Functional', 'Fence', 'BsmtExposure', 'GarageFinish', 'LandSlope',\n",
  "        'LotShape', 'PavedDrive', 'Street', 'Alley', 'CentralAir', 'MSSubClass', 'OverallCond', \n",
  "        'YrSold', 'MoSold')\n",
  "# Process columns and apply LabelEncoder to categorical features\n",
  "for c in cols:\n",
  "    lbl = LabelEncoder() \n",
  "    lbl.fit(list(all_data[c].values)) \n",
  "    all_data[c] = lbl.transform(list(all_data[c].values))\n",
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    "print('Shape all_data: {}'.format(all_data.shape))"
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   ]
  },
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      "(1449, 220)\n"
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    "all_data = pd.get_dummies(all_data)\n",
    "print(all_data.shape)"
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    "train = all_data[:ntrain]\n",
    "test = all_data[ntrain:]"
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    "# Modeling and Predictions"
   ]
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    "from sklearn.linear_model import ElasticNet, Lasso,  BayesianRidge, LassoLarsIC\n",
    "from sklearn.ensemble import RandomForestRegressor,  GradientBoostingRegressor\n",
    "from sklearn.kernel_ridge import KernelRidge\n",
    "from sklearn.pipeline import make_pipeline\n",
    "from sklearn.preprocessing import RobustScaler\n",
    "from sklearn.base import BaseEstimator, TransformerMixin, RegressorMixin, clone\n",
    "from sklearn.model_selection import KFold, cross_val_score, train_test_split\n",
    "from sklearn.metrics import mean_squared_error\n",
    "import xgboost as xgb\n",
    "import lightgbm as lgb"
   ]
  },
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    "# Cross-validation with k-folds\n",
    "n_folds = 5\n",
    "\n",
    "def rmsle_cv(model):\n",
    "    kf = KFold(n_folds, shuffle=True, random_state=42).get_n_splits(train.values)\n",
    "    rmse= np.sqrt(-cross_val_score(model, train.values, y_train,
scoring=\"neg_mean_squared_error\", cv = kf))\n",
    "    return(rmse)"
   ]
  },
  {
   "cell_type": "markdown",
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    "For our models, we are going to use lasso, elastic net, kernel ridge, gradient boosting, XGBoost,
and LightGBM regression"
   ]
  },
  {
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    "lasso = make_pipeline(RobustScaler(), Lasso(alpha =0.0005, random_state=1))\n",
    "ENet = make_pipeline(RobustScaler(), ElasticNet(alpha=0.0005, l1_ratio=.9,
random_state=3))\n",
    "KRR = KernelRidge(alpha=0.6, kernel='polynomial', degree=2, coef0=2.5)\n",
    "GBoost = GradientBoostingRegressor(n_estimators=3000, learning_rate=0.05,\n",
    "                                   max_depth=4, max_features='sqrt',\n",
    "                                   min_samples_leaf=15, min_samples_split=10, \n",
    "                                   loss='huber', random_state =5)\n",
    "model_xgb = xgb.XGBRegressor(colsample_bytree=0.2, gamma=0.0, \n",
    "                             learning_rate=0.05, max_depth=6, \n",
    "                             min_child_weight=1.5, n_estimators=7200,\n",
    "                             reg_alpha=0.9, reg_lambda=0.6,\n",
    "                             subsample=0.2,seed=42, silent=1,\n",
    "                             random_state =7)\n",
    "model_lgb = lgb.LGBMRegressor(objective='regression',num_leaves=5,\n",
    "                              learning_rate=0.05, n_estimators=720,\n",
    "                              max_bin = 55, bagging_fraction = 0.8,\n",
    "                              bagging_freq = 5, feature_fraction = 0.2319,\n",
    "                              feature_fraction_seed=9, bagging_seed=9,\n",
    "                              min_data_in_leaf =6, min_sum_hessian_in_leaf = 11)"
   ]
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    "\n",
    "Lasso score: 0.1165 (0.0105)\n",
    "\n",
    "ElasticNet score: 0.1166 (0.0105)\n",
    "\n",
    "Kernel Ridge score: 0.1202 (0.0107)\n",
    "\n",
    "Gradient Boosting score: 0.1231 (0.0127)\n",
    "\n",
    "[19:51:04] WARNING: C:/Users/Administrator/workspace/xgboost-win64_release_1.6.0/src/learner.cc:627: \n",
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    "\n",
    "  This could be a false alarm, with some parameters getting used by language bindings but\n",
    "  then being mistakenly passed down to XGBoost core, or some parameter actually being used\n",
    "  but getting flagged wrongly here. Please open an issue if you find any such cases.\n",
    "\n",
    "\n",
    "[19:51:12] WARNING: C:/Users/Administrator/workspace/xgboost-win64_release_1.6.0/src/learner.cc:627: \n",
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    "  This could be a false alarm, with some parameters getting used by language bindings but\n",
    "  then being mistakenly passed down to XGBoost core, or some parameter actually being used\n",
    "  but getting flagged wrongly here. Please open an issue if you find any such cases.\n",
    "\n",
    "\n",
    "[19:51:20] WARNING: C:/Users/Administrator/workspace/xgboost-win64_release_1.6.0/src/learner.cc:627: \n",
    "Parameters: { \"silent\" } might not be used.\n",
    "\n",
    "  This could be a false alarm, with some parameters getting used by language bindings but\n",
    "  then being mistakenly passed down to XGBoost core, or some parameter actually being used\n",
    "  but getting flagged wrongly here. Please open an issue if you find any such cases.\n",
    "\n",
    "\n",
    "[19:51:28] WARNING: C:/Users/Administrator/workspace/xgboost-win64_release_1.6.0/src/learner.cc:627: \n",
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    "\n",
    "  This could be a false alarm, with some parameters getting used by language bindings but\n",
    "  then being mistakenly passed down to XGBoost core, or some parameter actually being used\n",
    "  but getting flagged wrongly here. Please open an issue if you find any such cases.\n",
    "\n",
    "\n",
    "[19:51:35] WARNING: C:/Users/Administrator/workspace/xgboost-win64_release_1.6.0/src/learner.cc:627: \n",
    "Parameters: { \"silent\" } might not be used.\n",
    "\n",
    "  This could be a false alarm, with some parameters getting used by language bindings but\n",
    "  then being mistakenly passed down to XGBoost core, or some parameter actually being used\n",
    "  but getting flagged wrongly here. Please open an issue if you find any such cases.\n",
    "\n",
    "\n",
    "Xgboost score: 0.1259 (0.0136)\n",
    "\n",
    "[LightGBM] [Warning] feature_fraction is set=0.2319, colsample_bytree=1.0 will be ignored. Current value: feature_fraction=0.2319\n",
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"[LightGBM] [Warning] min_data_in_leaf is set=6, min_child_samples=20 will be ignored. Current value: min_data_in_leaf=6\n",
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     "[LightGBM] [Warning] bagging_fraction is set=0.8, subsample=1.0 will be ignored. Current value: bagging_fraction=0.8\n",
     "[LightGBM] [Warning] bagging_freq is set=5, subsample_freq=0 will be ignored. Current value: bagging_freq=5\n",
     "LGBM score: 0.1241 (0.0160)\n",
     "\n"
    ]
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   "score = rmsle_cv(lasso)\n",
   "print(\"\\nLasso score: {:.4f} ({:.4f})\\n\".format(score.mean(), score.std()))\n",
   "score = rmsle_cv(ENet)\n",
   "print(\"ElasticNet score: {:.4f} ({:.4f})\\n\".format(score.mean(), score.std()))\n",
   "score = rmsle_cv(KRR)\n",
   "print(\"Kernel Ridge score: {:.4f} ({:.4f})\\n\".format(score.mean(), score.std()))\n",
   "score = rmsle_cv(GBoost)\n",
   "print(\"Gradient Boosting score: {:.4f} ({:.4f})\\n\".format(score.mean(), score.std()))\n",
   "score = rmsle_cv(model_xgb)\n",
   "print(\"Xgboost score: {:.4f} ({:.4f})\\n\".format(score.mean(), score.std()))\n",
   "score = rmsle_cv(model_lgb)\n",
   "print(\"LGBM score: {:.4f} ({:.4f})\\n\" .format(score.mean(), score.std()))"
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   "class AveragingModels(BaseEstimator, RegressorMixin, TransformerMixin):\n",
   "    def __init__(self, models):\n",
   "        self.models = models\n",
   "        \n",
   "    # we define clones of the original models to fit the data in\n",
   "    def fit(self, X, y):\n",
   "        self.models_ = [clone(x) for x in self.models]\n",
   "        \n",
   "        # Train cloned base models\n",
   "        for model in self.models_:\n",
   "            model.fit(X, y)\n",
   "\n",
   "        return self\n",
   "    \n",
   "    #Now we do the predictions for cloned models and average them\n",
   "    def predict(self, X):\n",
   "        predictions = np.column_stack([\n",
   "            model.predict(X) for model in self.models_\n",
   "        ])\n",
   "        return np.mean(predictions, axis=1) "
  ]
 },
 {
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   "Here we average ENet, GBoost, KRR, and lasso. We'll add in XGBoost and LightGBM later."
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     "Averaged base models score: 0.1135 (0.0124)\n",
     "\n"
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   }
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   "averaged_models = AveragingModels(models = (ENet, GBoost, KRR, lasso))\n",
   "\n",
   "score = rmsle_cv(averaged_models)\n",
   "print(\"Averaged base models score: {:.4f} ({:.4f})\\n\".format(score.mean(), score.std()))"
  ]
```

```
},
{
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  "class StackingAveragedModels(BaseEstimator, RegressorMixin, TransformerMixin):\n",
  "    def __init__(self, base_models, meta_model, n_folds=5):\n",
  "        self.base_models = base_models\n",
  "        self.meta_model = meta_model\n",
  "        self.n_folds = n_folds\n",
  "   \n",
  "    # We again fit the data on clones of the original models\n",
  "    def fit(self, X, y):\n",
  "        self.base_models_ = [list() for x in self.base_models]\n",
  "        self.meta_model_ = clone(self.meta_model)\n",
  "        kfold = KFold(n_splits=self.n_folds, shuffle=True)\n",
  "        \n",
  "        # Train cloned base models then create out-of-fold predictions\n",
  "        # that are needed to train the cloned meta-model\n",
  "        out_of_fold_predictions = np.zeros((X.shape[0], len(self.base_models)))\n",
  "        for i, clf in enumerate(self.base_models):\n",
  "            for train_index, holdout_index in kfold.split(X, y):\n",
  "                instance = clone(clf)\n",
  "                self.base_models_[i].append(instance)\n",
  "                instance.fit(X[train_index], y[train_index])\n",
  "                y_pred = instance.predict(X[holdout_index])\n",
  "                out_of_fold_predictions[holdout_index, i] = y_pred\n",
  "                \n",
  "        # Now train the cloned  meta-model using the out-of-fold predictions\n",
  "        self.meta_model_.fit(out_of_fold_predictions, y)\n",
  "        return self\n",
  "    \n",
  "    def predict(self, X):\n",
  "        meta_features = np.column_stack([\n",
  "            np.column_stack([model.predict(X) for model in base_models]).mean(axis=1)\n",
  "            for base_models in self.base_models_ ])\n",
  "        return self.meta_model_.predict(meta_features)"
 ]
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    "Stacking Averaged models score: 0.1130 (0.0123)\n"
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  ],
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   "stacked_averaged_models = StackingAveragedModels(base_models = (ENet, GBoost, KRR),\n",
   "                                                 meta_model = lasso)\n",
   "\n",
   "score = rmsle_cv(stacked_averaged_models)\n",
   "print(\"Stacking Averaged models score: {:.4f} ({:.4f})\".format(score.mean(), score.std()))"
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   "    return np.sqrt(mean_squared_error(y, y_pred))"
  ]
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    "stacked_train_pred = stacked_averaged_models.predict(train.values)\n",
    "stacked_pred = np.expm1(stacked_averaged_models.predict(test.values))\n",
    "print(rmsle(y_train, stacked_train_pred))"
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      "Parameters: { \"silent\" } might not be used.\n",
      "\n",
      "  This could be a false alarm, with some parameters getting used by language bindings but\n",
      "  then being mistakenly passed down to XGBoost core, or some parameter actually being used\n",
      "  but getting flagged wrongly here. Please open an issue if you find any such cases.\n",
      "\n",
      "\n",
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    }
   ],
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    "xgb_train_pred = model_xgb.predict(train)\n",
    "xgb_pred = np.expm1(model_xgb.predict(test))\n",
    "print(rmsle(y_train, xgb_train_pred))"
   ]
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  {
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   ]
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      "[LightGBM] [Warning] min_data_in_leaf is set=6, min_child_samples=20 will be ignored. Current value: min_data_in_leaf=6\n",
      "[LightGBM] [Warning] min_sum_hessian_in_leaf is set=11, min_child_weight=0.001 will be ignored. Current value: min_sum_hessian_in_leaf=11\n",
      "[LightGBM] [Warning] bagging_fraction is set=0.8, subsample=1.0 will be ignored. Current value: bagging_fraction=0.8\n",
      "[LightGBM] [Warning] bagging_freq is set=5, subsample_freq=0 will be ignored. Current value: bagging_freq=5\n",
      "0.06761355216910027\n"
     ]
    }
   ],
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    "model_lgb.fit(train, y_train)\n",
    "lgb_train_pred = model_lgb.predict(train)\n",
    "lgb_pred = np.expm1(model_lgb.predict(test.values))\n",
    "print(rmsle(y_train, lgb_train_pred))"
   ]
```

```
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  "\n",
  "print('RMSLE score on train data:')\n",
  "print(rmsle(y_train,stacked_train_pred*0.70 +\n",
  "              xgb_train_pred*0.10 + lgb_train_pred*0.20 ))"
 ]
},
{
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  "# Ensemble Prediction"
 ]
```

```
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  "XGBoost = 1/(0.1177)\n",
  "LGBM = 1/(0.1159)\n",
  "Sum = Stacked + XGBoost + LGBM\n",
  "Stacked = Stacked/Sum\n",
  "XGBoost = XGBoost/Sum\n",
  "LGBM = LGBM/Sum\n",
  "print(Stacked, XGBoost, LGBM)"
 ]
},
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  }
 ],
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  "\n",
  "print('RMSLE score on train data:')\n",
  "print(rmsle(y_train,stacked_train_pred*Stacked +\n",
  "             xgb_train_pred*XGBoost + lgb_train_pred*LGBM))"
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