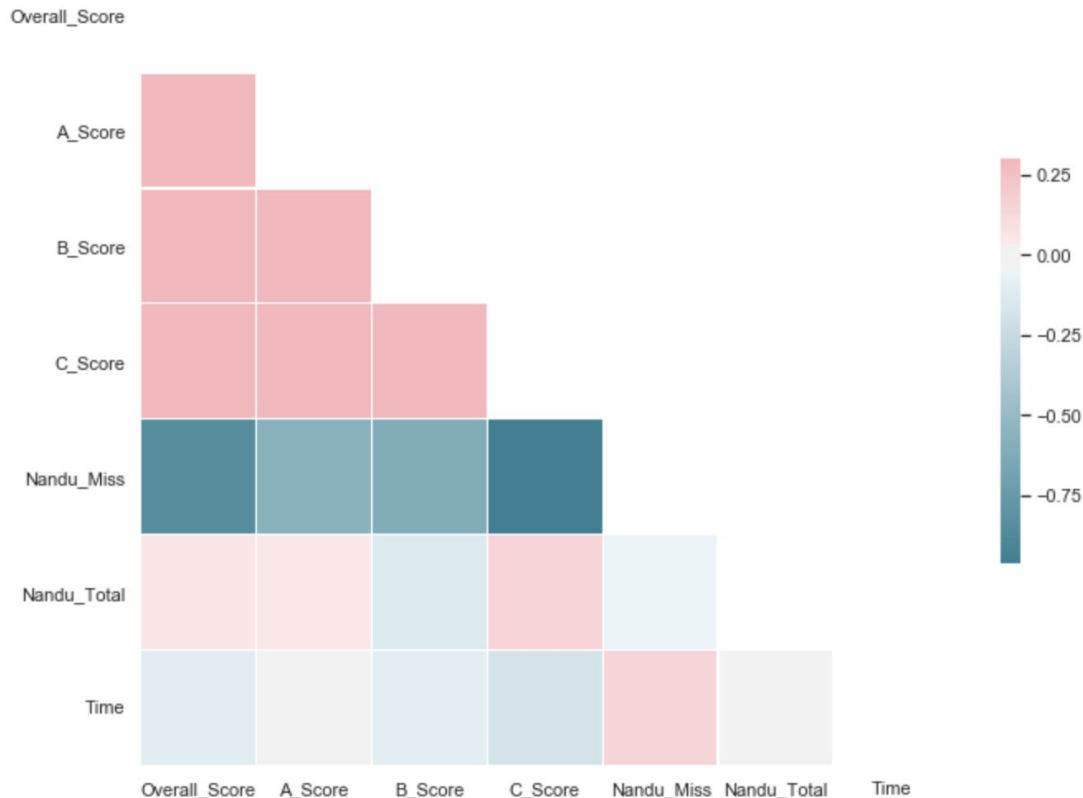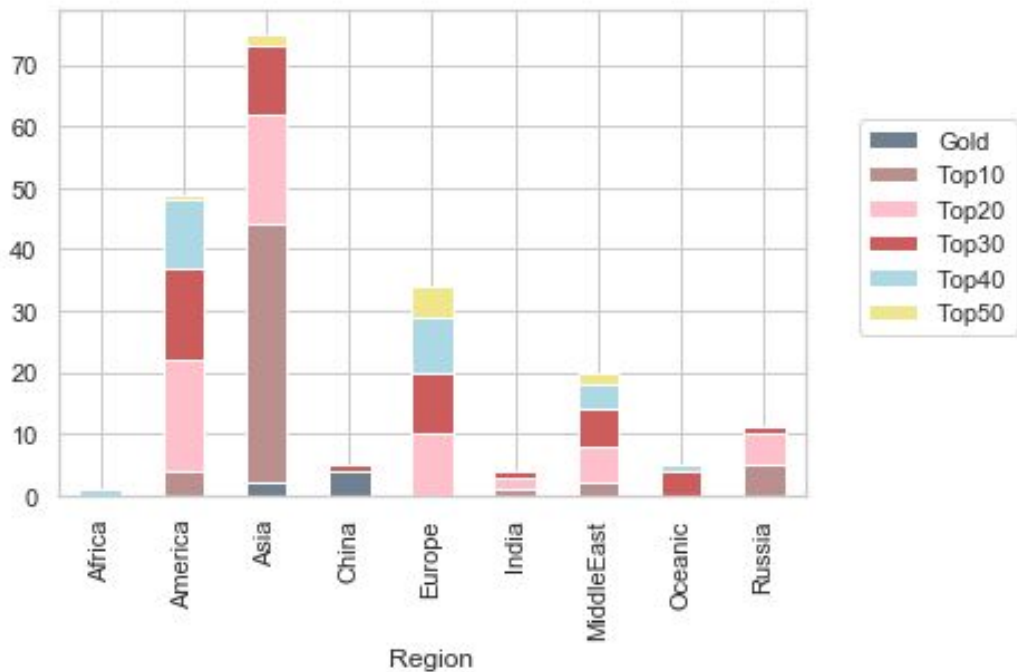# *2017 World Wushu Championships*

Group Anaconda
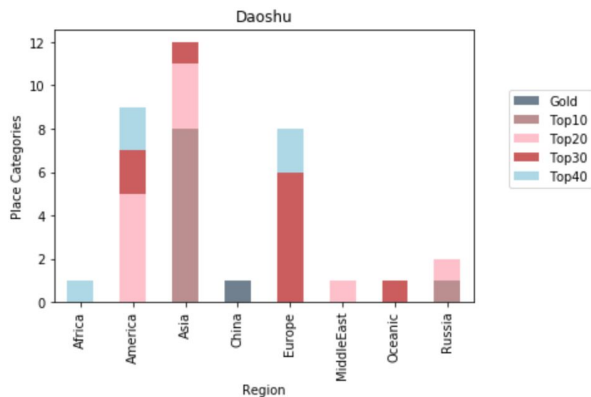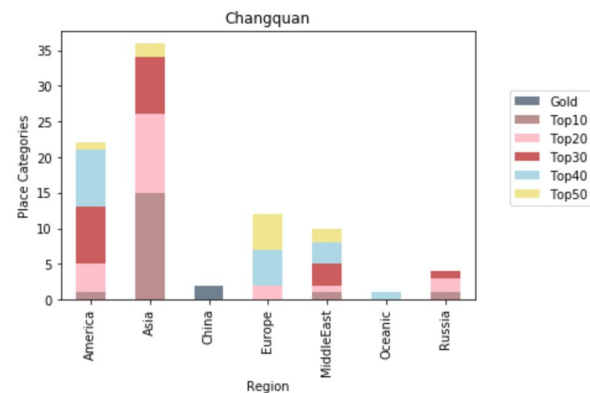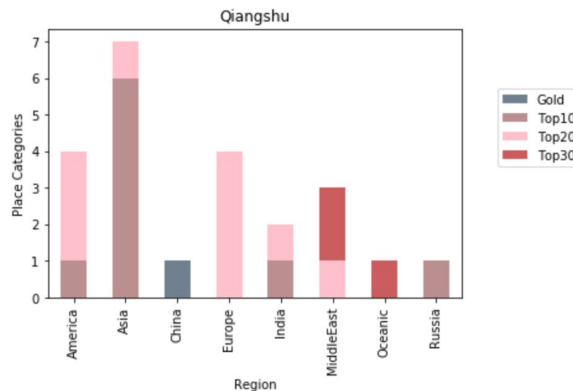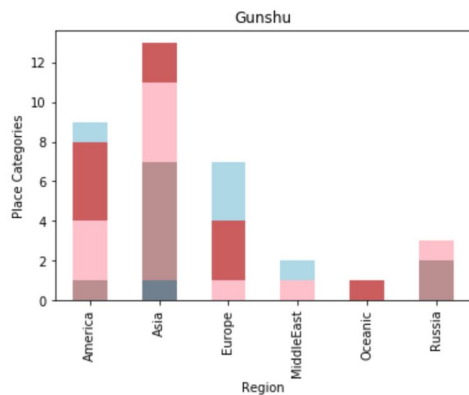Greta Chen, Shirley Gui, Miao Xu

Correlation among variables

- The number of difficult movements failed has strong negative correlation with overall score

- Nandu_Miss is highly correlated with scores

- Nandu_Total has slight positive correlation
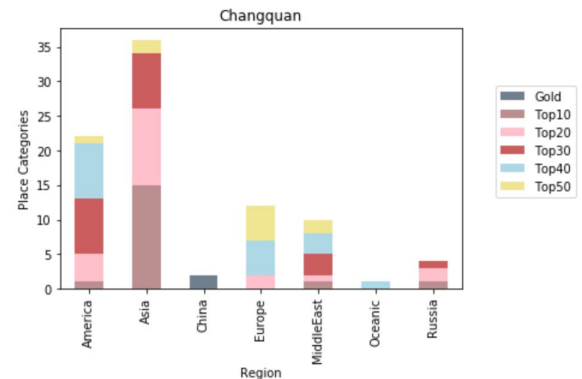
Distribution of Place Category by Region

- The distribution of place category for regions diverses.
- Gold and Top10 mainly belongs to Asia and China
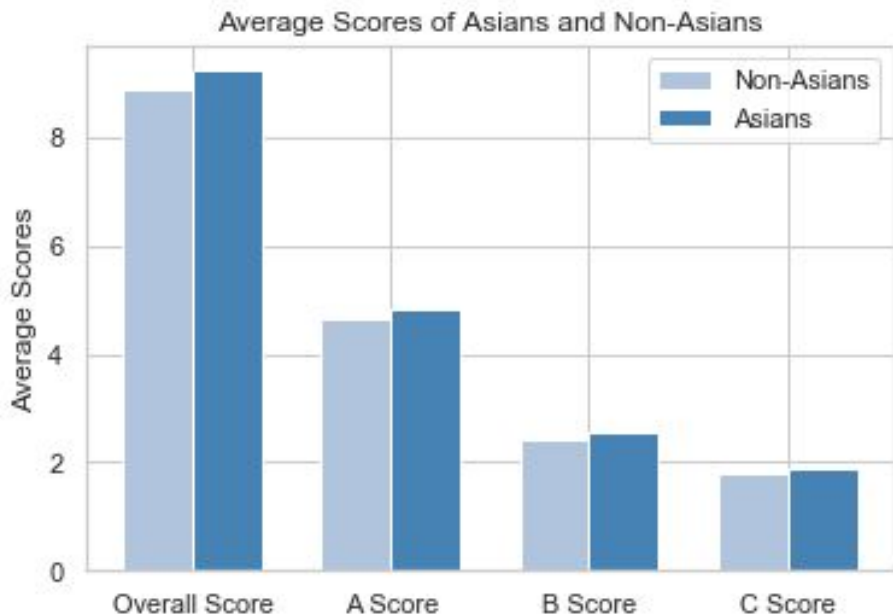- Other than Asia and China, American, Europe, Middle East dominates.

Distribution of Place Categories for Each Region by Events

- The place category for different regions varies in different events

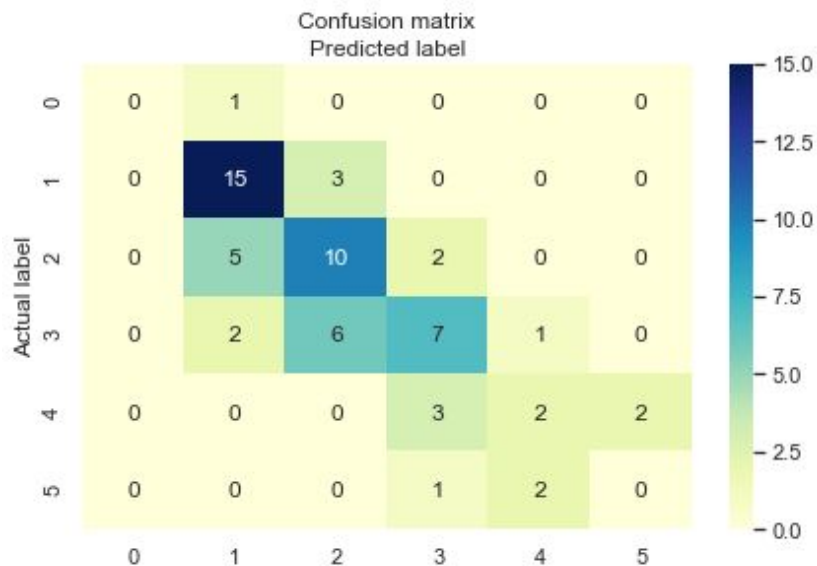- In all events, Asia dominants significantly

Comparison of Scores in Asians and Non-Asians

Average Scores of Asians and Non-Asians

- Group players by Asian and non-Asian last names
- Create a new binary variable: 'is_asian'.
- Asian-originated players tend to have higher average scores in A, B, C and overall scores than players of other ethnicity.

Model Selection By Cross-Validation

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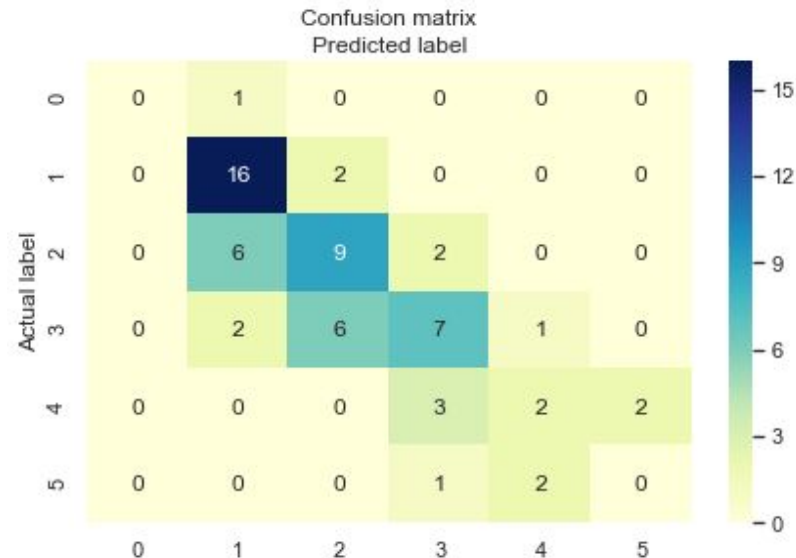Original Model

Confusion matrix
Predicted label

Accuracy: 0.548387; MAE: 0.534314

Response Variable: Place Category

Predictors: Region, Event, Is_Asian, Nandu_Total, Nandu_Miss.

Model Selected (Model 3)

Confusion matrix
Predicted label

Accuracy: 0.548387; MAE: 0.519608

Response Variable: Place Category

Predictors: Region, Event, Is_Asian, Nandu_Miss.

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Thank You.