**Independent Variables (X):**

| **Variable Name** | | **Code** | **Definition** | |
| --- | --- | --- | --- | --- |
| **Whether Host Country** | | **is\_host** | **Whether the country is the host (1 for host, 0 for non-host)** | |
| **Medal Expectation Increment \* Personnel Expectation Increment** | | **medal\_increment \* personnel\_increment** | **Product of medal expectation increment and personnel expectation increment** | |
| **Project Advantage Coefficient** | | **proj\_adv** | **Advantage coefficient of a specific project** | |
| **Country Level** | | **country\_lvl** | **The level of the country in the competition (ordered by rank)** | |
| **Project Medal Expectation / Project Personnel Expectation** | | **proj\_medal\_per\_person** | **Ratio of projected medals to projected personnel for a specific project** | |
| **Gold Medal Probability** | **gold\_prob** | | | **Probability of an athlete winning a gold medal** |
| **Silver Medal Probability** | **silver\_prob** | | | **Probability of an athlete winning a silver medal** |
| **Bronze Medal Probability** | **bronze\_prob** | | | **Probability of an athlete winning a bronze medal** |
| **No Medal Probability** | **no\_medal\_prob** | | | **Probability of an athlete winning no medal** |

**Dependent Variables (y):**

| **Variable Name** | **Code** | **Definition** |
| --- | --- | --- |
| Number of Gold Medals | golds | Total number of gold medals won |
| Total Number of Medals | total\_medals | Total number of medals (gold, silver, bronze) won |