**Model Development Phase Template**

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| Date | 20 June 2024 |
| Team ID | 739849 |
| Project Title | Doctors Annual Salary Prediction |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

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| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| Age | Age of the doctor | Yes | Age is likely correlated with experience and potentially salary. |
| Experience | Number of years of experience | Yes | Experience directly impacts salary levels. |
| Specialization | Field of specialization (e.g., Cardiology, Pediatrics) | Yes | Different specializations have different average salary ranges. |
| Location | Geographic location of practice | Yes | Location affects the cost of living and salary expectations. |
| Education | Highest level of education attained | Yes | Higher education levels typically correlate with higher salaries. |
| Gender | Gender of the doctor | No | Gender should not impact salary predictions due to ethical considerations. |
| Hours Worked | Average number of hours worked per week | Yes | More hours worked may indicate higher earnings. |
| Hospital Type | Type of hospital (e.g., public, private) | Yes | Different hospital types may offer varying salary ranges. |
| Certifications | Additional certifications or qualifications | Yes | Additional certifications may lead to higher salary. |
| |  | | --- | | Publications |  |  | | --- | |  | | Number of published research papers | Yes | Publications can enhance reputation and potentially salary. |