# Project Initialization and Planning Phase

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| Date | 15 July 2024 |
| Team ID | 740017 |
| Project Title | Unveiling Baldness: Genetic And Environmental Dynamics |
| Maximum Marks | 3 Marks |

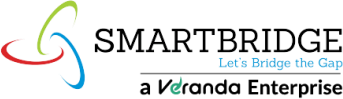
**Project Proposal (Proposed Solution) report:**

This project aims to develop a predictive model that accurately estimates the annual salaries of doctors. By leveraging machine learning algorithms and considering various factors such as specialization, experience, location, and education, we seek to provide a reliable tool for salary prediction. This will assist healthcare organizations in financial planning, budget allocation, and offering competitive compensation packages.

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| **Project Overview** | |
| Objective | The project aims to explore the interplay between genetic factors and environmental influences in the development of baldness. The goal is to gain a comprehensive understanding of how these dynamics contribute to hair loss and to identify potential intervention strategies. |
| scope | The scope of this project encompasses a multi-faceted approach to understanding baldness, leveraging cutting-edge genetic research, environmental studies, and public health strategies to provide comprehensive |
| **Problem Statement** | |
| Description | The project is motivated by the need to understand why certain individuals are more susceptible to hair loss and to identify strategies to prevent or mitigate this condition. This project aims to provide valuable insights into the causes of baldness and pave the way for innovative solutions to manage and prevent this common condition, ultimately  improving the quality of life for individuals affected by hair loss |

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| Impact | “Unveiling Baldness: Genetic and Environmental Dynamics” project is expected to have a profound impact on scientific research, healthcare practices, public health, and societal attitudes towards baldness, ultimately contributing to improved health outcomes and quality of life  for individuals worldwide. |

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| **Proposed Solution** | |
| Approach | This multi-faceted approach aims to uncover the complex dynamics between genetics and environmental factors in baldness, providing a robust foundation for preventive and therapeutic solutions. |
| Key Features | -Ensures informed consent and strict data privacy.  -Publishes results, creates guidelines, and conducts public workshops. --  -Ensures robust and generalizable results. |

# Resource Requirements

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| **Resource Type** | **Description** | **Specification/Allocation** |
| **Hardware** | | |
| Computing Resources | CPU/GPU specifications, number of cores | T4 GPU |
| Memory | RAM specifications | 8 GB |
| Storage | Disk space for data, models, and logs | 1 TB SSD |
| **Software** | | |
| Frameworks | Python frameworks | Flask |
| Libraries | Additional libraries | scikit-learn, pandas, numpy, matplotlib, seaborn |

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| Development Environment | IDE | Jupyter Notebook, pycharm |

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| **Data** | | |
| Data | Source, size, format | Kaggle dataset, 614, csv UCI dataset, 690, csv |