

## Project Initialization and Planning Phase

Date	15 July 2024
Team ID	739756
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.

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

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	<ul style="list-style-type: none"> <li>-Ensures informed consent and strict data privacy.</li> <li>-Publishes results, creates guidelines, and conducts public workshops. --</li> <li>-Ensures robust and generalizable results.</li> </ul>

## Resource Requirements

Resource Type	Description	Specification/Allocation
<b>Hardware</b>		
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
<b>Software</b>		
Frameworks	Python frameworks	Flask
Libraries	Additional libraries	scikit-learn, pandas, numpy, matplotlib, seaborn

Development Environment	IDE	Jupyter Notebook, pycharm
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<b>Data</b>		
Data	Source, size, format	Kaggle dataset, 614, csv UCI dataset, 690, csv