Model Development Phase Template

Date	15 July 2024
Team ID	739779
Project Title	Predictive Modeling For H1b Visa Approval Using Machine Learning
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.

Feature Name	Description	Important Score	Selection Status	Reason For Selection
Job Title	Title of the job position	0.15	Selected	High correlation with visa approval
Employer Name	Name of the employer	0.10	Selected	Significant impact on approval rates
Full Time Position	Whether the job is full-time or part time	0.08	Selected	Relevant for determining job stability
Prevailing Wage	Wage offered for the job	0.12	Selected	Important economic indicator

Education Level	Applicant's high education level	0.09	Selected	Higher education often correlates with approval
Years Of Experience	Applicant's year of experience	0.07	Selected	Experience can influence approval decisions
Job Location State	State where the job is located	0.04	Excluded	Less significant impact on prediction model
Job Location City	City where the job is located	0.03	Excluded	High dimensionality. Low individual impact
Industry	Industry of the job	0.06	Selected	Different industries have different approval rates
NAICS code	North American Industry Classification System Code	0.02	Excluded	Low impact on model performance
Application Type	Type of H1B application (e.g., new,renewal)	0.11	Selected	Different application types have different approval rates
Approval Status	Status of the application	N/A		