

Inputs

- User Profile:
Salary, CIBIL, SameCompanyMonths, OverallMonths, HouseOwnership, AMB, EMI, Obligations
- Product Line Rules (PL A1...PL A4):
MinSalary, MinCIBIL, HouseOwnership, SameCompanyMonths, OverallMonths
- Weights:
W_salary, W_cibil, W_job, W_house, W_amb, W_obligations

For Each Product Line (PL):

- **Check Hard Criteria**
 - If `User.Salary < PL.MinSalary` → mark product as "Ineligible".
 - If `User.CIBIL < PL.MinCIBIL` → mark product as "Ineligible".
 - If `User.SameCompanyMonths < PL.SameCompanyMonths` → mark product as "Ineligible".
 - If `User.OverallMonths < PL.OverallMonths` → mark product as "Ineligible".
 - If `PL.HouseOwnership = "Yes"` and `User.HouseOwnership != "Yes"` → mark product as "Ineligible".
 - If any of these fail, push (`Product`, `Score = 0`, `Reason = Failed`) to Results and continue to next PL.

- **Normalize Parameters**

- Salary Score (SS) = $\min(\text{User.Salary} / \text{PL.MinSalary}, 1)$
- CIBIL Score (CS) = $\max(\min((\text{User.CIBIL} - 650) / (900 - 650), 1), 0)$
- Job Continuity Score (JCS) = 1 if criteria met, else 0
- House Ownership Score (HOS) = 1 if matches rule or NA, else 0
- AMB Score (AMS) = $\min(\text{User.AMB} / \text{User.EMI}, 1)$
- Obligation Score (OS) = $\max(1 - (\text{User.Obligations} / (\text{User.Salary} * 2)), 0)$

- **Weighted Final Score**

$\text{FinalScore} = W_{\text{salary}} \cdot \text{SS} + W_{\text{cibil}} \cdot \text{CS} + W_{\text{job}} \cdot \text{JCS} + W_{\text{house}} \cdot \text{HOS} + W_{\text{amb}} \cdot \text{AMS} + W_{\text{obligations}}$

- $\text{OSFinalScore} = W_{\text{salary}} \cdot \text{SS} + W_{\text{cibil}} \cdot \text{CS} + W_{\text{job}} \cdot \text{JCS} + W_{\text{house}} \cdot \text{HOS} + W_{\text{amb}} \cdot \text{AMS} + W_{\text{obligations}} \cdot \text{OS}$
- $\text{OSFinalScore} = W_{\text{salary}} \cdot \text{SS} + W_{\text{cibil}} \cdot \text{CS} + W_{\text{job}} \cdot \text{JCS} + W_{\text{house}} \cdot \text{HOS} + W_{\text{amb}} \cdot \text{AMS} + W_{\text{obligations}} \cdot \text{OS}$

- **Store Result**

Add (PL, FinalScore) to Results.