PROJECT CHARTER

PROJECT NAME	PROJECT MANAGER	PROJECT SPONSOR
GRADE AND PRODUCT MIX ANALYSIS		

EMAIL	PHONE	ORGANIZATIONAL NAME
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PROJECT OVERVIEW

Project Title	Grade and Product Mix Analysis for Optimizing Steel Production Efficiency.
Purpose of Project	Optimize overall production and maximize profitability by accurately determining which steel types to produce and in what quantities, ensuring alignment with diverse customer requirements and market demand.
Project Objective	Maximize overall productivity and resource utilization while minimizing production costs, energy consumption, and material waste to achieve an optimal balance in steel grade and product mix.
Project Constraints	The limited availability and inconsistency of production data may reduce the accuracy and reliability of the analysis, potentially impacting data-driven decision-making and optimization results
Project Stakeholders	Project Manager, Data Analysts, IT / Data Management Team
Project Deliverables	Project Charter Data Dictionary Data Collection & Cleaning Report Exploratory Data Analysis (EDA) Report Grade-wise Performance Analysis Product Mix Optimization Model Visualization Dashboard Findings and Insights Report Recommendations Document Final Project Report / Presentation

TENTATIVE SCHEDULE

Milestone	Expected Output	Estimated Timeframe
1. Define Problem Statement		
2. Acquire & Understand Dataset		
3. Data Cleaning & Preprocessing		
4. Exploratory Data Analysis (EDA)		
5. Feature Engineering		
6. Churn Prediction Model		
7. Customer Segmentation		
8. Insights & Recommendations		