

LESSONS LEARNED

04/03/2025

Project Title: Player Performance Analysis in Cricket **Date Prepared:** _____

Project Performance Analysis

	What Worked Well	What Can Be Improved
Requirements definition and management	Well-defined initial requirements helped align the project scope and objectives	Periodic validation of evolving requirements could have helped avoid late adjustments.
Scope definition and management	Clear definition and agreement on project boundaries ensured focused execution.	More detailed breakdown of deliverables in early planning (e.g., specific analytics outputs and dashboard features) would have improved clarity and tracking.
Schedule development and control	Adherence to milestone-based timelines ensured smooth progression.	Some activities like data cleaning and feature engineering took more time which could be controlled.
Cost estimating and control	\$185,000)	Minor costs like additional subscriptions for dashboards caused little inconvenience.
Quality planning and control	Consistent model evaluation metrics ensured prediction reliability.	Early testing wasn't detailed enough—we should do more checks like cross-validation earlier on.

Human resource availability, team development, and performance	Everyone worked well together, and tasks were shared clearly.	Little more expertise needed for Power BI
Communication management	Weekly meetings helped the team stay on the same page.	More detailed documentation would be better to stay on the same line.
Stakeholder management	The sponsor and other important people stayed involved and gave useful feedback.	We could have shown more model evaluation ideas earlier to get their input sooner.
Reporting	Reports were clear and explained everything that was done.	Having a live dashboard to show real-time progress would be helpful in future projects.
Risk management	The team found and handled big risks early, like data quality issues.	We should write more detailed risk plans and update them often during the project.
Procurement planning and management	All tools used (like Power BI and ML libraries) were planned properly and easy to access.	It's better to have backup options for tools or data in case something isn't available later like having a tableau license in case of failure of Power BI.
Process improvement information	We improved the work step-by-step based on feedback.	Writing down lessons after each big phase would help in future.
Product-specific information	The Power BI dashboard helped a lot with showing player insights clearly.	Real-Time analytic dashboards could be better optimized.

Other	Model evaluation and accuracy were excellent (97%)	More time is taken to balance and normalize the dataset.
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Risks and Issues

Risk or Issue Description	Response	Comments
Bad or messy data made the model less accurate	Data cleansing and feature engineering techniques were applied	More checking and filtering could still help improve the model
Bias in dataset leading to skewed player predictions	Bias detection and correction methods implemented	Continuous monitoring recommended
Issues Regarding Visualizations	Extensive Power BI training implemented	Continuous learning is recommended

Quality Defects

Defect Description	Resolution	Comments
Minor inaccuracies in player classification	Algorithm tuning and additional training	Achieved Targeted threshold
Visualization inconsistencies in Power BI	I tested and learned the UI to visualize better	Improved visualizations

Vendor Management

Vendor	Issue	Resolution	Comments
Power BI	No issues caused	No issues caused	Free Licensing
Tableau	Expired license	Renewed the license	Had a backup license in place of power BI

Other

Areas of Exceptional Performance	Areas for Improvement
Effective data preprocessing improved model accuracy.	Earlier risk assessment for integration challenges.
Clear project scope minimized major changes.	More effective way to pre-process and clean and prepare the data