Request for Proposal (RFP)

Project: E-commerce Modernization Development

Client: Energy Systems Co
Project Type: Machine Learning Implementation
Duration: 23 months
Team Size: 6 people
Budget Range: $500K - $1M
Start Date: November 28, 2025
Location: West Victoriaborough
Remote Work: Allowed

Executive Summary

Energy Systems Co is seeking proposals from experienced development teams for the implementation of a data analytics platform aimed at modernizing our e-commerce capabilities. This project will leverage machine learning to enhance data-driven decision-making, improve customer experiences, and optimize operational efficiencies. Our goal is to find a skilled team that can commit to a long-term partnership over a 23-month period.

Project Overview

Objectives

- Develop a robust data analytics platform that integrates seamlessly with existing e-commerce systems.

- Utilize machine learning algorithms to analyze customer behavior and predict trends.
- Improve the efficiency of data processing and reporting to facilitate real-time decision-making.

Business Context

As e-commerce continues to evolve, Energy Systems Co recognizes the need to modernize its digital capabilities to remain competitive. By harnessing advanced analytics and machine learning, we aim to enhance our customer engagement strategies, increase sales conversions, and optimize inventory management.

Technical Requirements

Required Skills

- **Python**: Expert level (Preferred certifications: AWS Certified Solutions Architect)
- **Django**: Advanced level (Preferred certifications: Google Cloud Professional, Certified Kubernetes Administrator)

Preferred Skills

- **Kubernetes**: Intermediate level (Preferred certifications: AWS Certified Solutions Architect)
- **Machine Learning**: Expert level (Preferred certifications: AWS Certified Solutions Architect)

Expected Team Profile

The development team should consist of the following roles: - **Data Scientist**: Expert in machine learning, statistical analysis, and data modeling. Responsible for developing algorithms and predictive models. - **Backend Developer**: Proficient in Python and Django, focusing on server-side application logic and integration with the data analytics platform. - **DevOps Engineer**: Skilled in Kubernetes and cloud infrastructure,

responsible for deployment and scaling of applications. - **Data Engineer**: Expertise in data warehousing and ETL processes, ensuring data quality and accessibility. - **UI/UX Designer**: Responsible for creating user-friendly interfaces and enhancing the overall user experience. - **Project Manager**: Overseeing project timelines, deliverables, and communication between stakeholders.

Timeline

- **RFP Release Date:** [Insert Date]
- **Proposal Submission Deadline:** [Insert Date]
- **Team Selection:** [Insert Date]
- **Project Kickoff:** November 28, 2025
- **Milestones:**
- Month 3: Completion of initial platform architecture
- Month 6: First version of data analytics features
- Month 12: User testing and feedback cycle
- Month 18: Full deployment of machine learning models
- Month 23: Project closure and final report delivery

Budget

The budget for this project is estimated between **$500K and $1M**. Proposals should include a detailed cost breakdown, including hourly rates, materials, and any additional expenses.

Proposal Guidelines

Interested parties are invited to submit their proposals that include the following: - Company profile and relevant experience - Detailed team structure and individual profiles - Project approach and methodology - Timeline and milestones - Cost proposal - References from previous projects

Proposal Submission Deadline: [Insert Date]
Contact Information:
[Insert Name]

[Insert Title]
Energy Systems Co
[Insert Email]
[Insert Phone Number]

Acceptance Criteria and Evaluation Process

Proposals will be evaluated based on the following criteria: - Relevant experience and expertise of the team - Quality and feasibility of the proposed approach - Cost-effectiveness - References and past performance - Compliance with technical requirements

Shortlisted candidates may be invited for an interview or presentation. The final selection will be based on a comprehensive assessment of the proposals received.

We look forward to receiving your proposal and working together to achieve our e-commerce modernization goals.