**Shivam Singh**  
Senior Data Scientist  
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Dear Client,

I am excited to submit my proposal for your Data Science project on Upwork. Recently, I worked on similar project text-to-SQL project where we initially used GPT-4 to generate SQL queries and created a pipeline to execute these queries on a Data-bricks DB. The pipeline includes a retry mechanism that attempts up to three times to correct errors during query execution. In the second version of the project, I am doing fine-tuning LLAMA on a specific database and dataset to reduce costs associated with GPT-4 usage, because the prompt is very lengthy.

Sharing you project link for text -to-sql POC version :

https://github.com/178shivam178/txt-to-sql/tree/main

With over 4 years of experience in developing and deploying Machine Learning and Deep Learning models, particularly in Natural Language Processing (NLP), I have also worked on various tasks related to Computer Vision.

Here are a few highlights of my experience:

* **Rule Extraction and Execution:** Leveraged NLP techniques to extract and process unstructured text, fine-tuning models such as Blackstone and Flair for accurate entity recognition.
* **Chatbot Development:** Designed and implemented custom chat-bots using Rasa, along with architectures like Distil-BERT and GPT, to ensure domain-specific responses.
* **Email Classification:** Built email categorization models that achieved over 90% accuracy, integrated with document extraction pipelines to automate workflows.

I am proficient in Python, PyTorch, TensorFlow, and a range of NLP libraries, with hands-on experience deploying models using Docker and integrating them into production environments. My focus is on delivering scalable, maintainable solutions that enhance your business’s performance.

I would welcome the opportunity to discuss your project in more detail and demonstrate how my skills can contribute to its success. Feel free to contact me via Upwork or directly at shivamcse17818@gmail.com.

Thank you for considering my proposal. I look forward to working with you!

Best regards,  
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