PROJECT DETAILS FOR REUME:

**Movie Review Sentiment Analysis Using Naive Bayes**

* Developed a sentiment analysis model to classify movie reviews as positive or negative.
* Utilized Natural Language Processing (NLP) techniques to preprocess text data, including tokenization and vectorization using Count Vectorizer.
* Trained a Multinomial Naive Bayes classifier on the IMDb movie reviews dataset.
* Achieved an accuracy of 83% on the test set.
* Evaluated model performance using accuracy, confusion matrix, and classification report.
* Key Skills: Machine Learning, NLP, Python, Scikit-learn, Pandas, Data Preprocessing, Model Evaluation

This description accurately reflects the steps and techniques used in the project. Adjust the accuracy percentage to the actual result you get from your model evaluation.

Your project on Movie Review Sentiment Analysis using Naive Bayes incorporates several aspects that can make it unique and valuable:

1. **Application of Naive Bayes Classifier**: Many sentiment analysis projects use more complex models like deep learning. Using Naive Bayes showcases your ability to implement effective, simpler models that perform well in text classification tasks.
2. **Focus on Movie Reviews**: Analyzing sentiment specifically from movie reviews demonstrates domain-specific knowledge and interest, which can be appealing if you're targeting roles in entertainment, media, or consumer insights.
3. **Utilization of NLP Techniques**: Your use of Natural Language Processing techniques such as tokenization and vectorization (with CountVectorizer) highlights your proficiency in text data preprocessing, a crucial skill in many data science and machine learning roles.
4. **Model Evaluation and Comparison**: Evaluating the performance of your model with metrics like accuracy, confusion matrix, and classification report shows a structured approach to model assessment, which is essential for demonstrating the effectiveness of your solution.
5. **Hands-On Project Experience**: Employing real-world datasets like IMDb movie reviews gives your project authenticity and practical relevance, showing potential employers your ability to work with large datasets and derive meaningful insights.
6. **Potential for Enhancement**: Mentioning your exploration of hyperparameter tuning and comparisons with other classifiers (SVM, Random Forest) suggests a proactive approach to improving model performance, indicating a deeper understanding of machine learning methodologies.