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Professor Dr. Gilliand

Throughout my academic journey, culminating in my recent capstone project, I have focused on advancing my expertise in machine learning. Recognizing the increasing relevance of this field in today's technological landscape, I chose to undertake a project that not only challenged me but also aligned with my career aspirations.

My capstone project involved developing an email spam filter to predict whether an email is spam or not, utilizing the Sklearn model selection and the Tfidfvectorizer function. By utilizing the train-test split method, I ensured effective training of the model while validating its performance accurately. I addressed the inherent challenge of computer comprehension of human language by employing Tfidfvectorizer, which transformed textual data into meaningful numerical representations, enabling precise analysis and prediction.

Utilizing logistic regression as the primary algorithm, I trained the model to predict the probability of an email being spam or not, achieving reliable outcomes within a binary framework. Furthermore, I implemented rigorous evaluation techniques, including accuracy scoring, to mitigate the risk of overfitting and ensure the model's generalizability.

Warm regards,

Lonnie Harper