MODULE 8 QUIZ 1 dkowsikpai@gmail.com Switch account Draft saved * Required Email * fmml20210088@ihub-data.iiit.ac.in Name * Kowsik Nandagopan D FMML ID * FMML20210088 1. The number of heads observed when tossing a biased coin k times * 1 point follows which distribution? Bernoulli Distribution Binomial Distribution Gaussian Distribution O Poisson Distribution Uniform Distribution

| 2. Multivariate gaussian distributions in two variables are just independent * 1 point gaussians in both variables individually. |
|--|
| This is always true. |
| This is always false. |
| This is true only if covariance matrix is purely diagonal |
| This is true if all diagonal terms on the covariance matrix are 0 |
| This is true if the trace of the covariance matrix is 0 |
| |
| 3. Let there be a feature F of an object O taking real values between 0 * 1 point and 1. O can belong to class C1 or C2. If PDF(value of F O is of type C1) = PDF(value of F O is of type C2) for all values of F then |
| F is a very low entropy feature for classification |
| F is the most useful feature for classification |
| F cannot be used to perform better than random classification |
| No comments can be made about the usefulness of F |
| Good classification using F needs neural networks and probabilistic models are insufficient |

| 4. Evaluate the claim using Central Limit Theorem: Number-of-students(marks) in JEE should loosely resemble a normal distribution, given that a large number of students participate. | * 1 point |
|--|-----------|
| True, this is a correct application of Cenral Limit Theorem | |
| False, this is wrong because the ability of each student is not independent of other | each |
| False, this is wrong because the ability of each student is not identically distri | buted |
| False, such claim required the number of questions to be very large, not the nu students | ımber of |
| False, the support of the marks is not all real numbers, just 0 to full marks. | |
| | |
| | |
| 5. Generative models are primarily responsible for doing which of the following? | * 1 point |
| · · · · | * 1 point |
| following? | * 1 point |
| following? Estimate probability distribution of feature value given class | * 1 point |
| following? Estimate probability distribution of feature value given class Estimate probability distribution of class given feature | * 1 point |
| Estimate probability distribution of feature value given class Estimate probability distribution of class given feature Find the single most probable class for each feature | * 1 point |

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