



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500043, Telangana

COMPUTER SCIENCE AND ENGINEERING (AI & ML)

ATTAINMENT OF COURSE OUTCOME - ACTION TAKEN REPORT

| | | | |
|----------------------|---|---------------|---|
| Name of the faculty: | Dr. S JAGADHA | Department: | Computer Science and Engineering (AI & ML) |
| Regulation: | IARE - R20 | Batch: | 2020-2024 |
| Course Name: | Probabilistic Modeling and Reasoning | Course Code: | ACAC01 |
| Semester: | III | Target Value: | 60% (1.8) |

Attainment of COs:

| Course Outcome | Direct Attainment | Indirect Attainment | Overall Attainment | Observation |
|---|-------------------|---------------------|--------------------|-------------|
| CO1 Calculate the singular value decomposition of a given matrix and principal components of a given covariance data matrix for reducing the dimensions | 3.00 | 2.40 | 2.9 | Attained |
| CO2 Apply moments, mean, variance, skewness and kurtosis of Gaussian distributions in the geometrical analysis of a data set which follows Gaussian distributions. | 2.30 | 2.30 | 2.3 | Attained |
| CO3 Make use of decision theory and estimation statistics, EM algorithm in finding maximum likelihood parameters of a statistical model. | 3.00 | 2.40 | 2.9 | Attained |
| CO4 Interpret the role of the log likelihood function and maximum likely hood estimate in determining the estimates of Binomial, Poisson, Normal distribution parameters. | 3.00 | 2.40 | 2.9 | Attained |
| CO5 Make use of Cramer-Rao Lower Bound in calculating minimum variance unbiased estimator. | 3.00 | 2.40 | 2.9 | Attained |
| CO6 Apply Bayesian laws, methods and approach in solving the inference problems and optimizing the information. | 3.00 | 2.40 | 2.9 | Attained |

Action Taken Report: (To be filled by the concerned faculty / course coordinator)

S Jagadha
Course Coordinator

S Jagadha
Mentor

Head of the Department

S Jagadha
Head of the Department
Artificial Intelligence & Machine Learning
INSTITUTE OF AERONAUTICAL ENGINEERING
Dundigal, Hyderabad - 500 043