

Dr. Mahalingam College of Engineering and Technology, Pollachi-642003

Office of Dean Research & Innovation

and

Departments of Mechanical Engineering & Electrical Engineering

Report of the Knowledge Sharing Session on “KNN, FCN & CNN- A hands on Practice”

Venue: **C216**

Date: **31/08/2024**

Time: **9.30am-4.30pm**

Brief of the event, guest details, participant details

A “KNN, FCN & CNN- A hands on Practice” was conducted on August, 31, 2024, by the Department of Mechanical Engineering & Department of Electrical Electronics Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi-642003. A summary of the programme is given below.

The programme started in the forenoon (9.30am) with the participation of 16 faculty members from various departments at C216. The resource persons were Dr.D Nathan Associate Professor, Department of Mechanical Engineering & Dr K Umamaheswari Department of Electrical Electronics Engineering. Initially, the session started with the fundamentals of KNN and Linear Classifier. Then discussed the basics of computer vision challenges in deep learning and how these are addressed by regularization and optimization. She explained the formation classification score and loss function calculation (SVM loss, Softmax Loss). Then Regularizers like L1, L2 and Elastic net were explained. Then the fundamentals of optimizers, GD, SGD and Adagrad, Adam etc. Then Multilayer perceptron was discussed. Afternoon session, we had a hands on practice of linear classifier of MNIST image data (hand written number image classification)

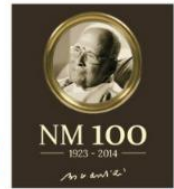
Coordinators:

1. Dr. D. Nathan, ASP/ MECH
2. Dr. K.Umahaheswari, AP(SG)/ EEE

Poster:



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**Department of Mechanical Engineering
&
Department of Electrical & Electronics Engineering**

Cordially invites you for the

**Knowledge Sharing Session on
"KNN, FCN, CNN - A hands-on Practice"**

Pandas



NumPy



Dr. Nathan D

Associate Professor/ MECH



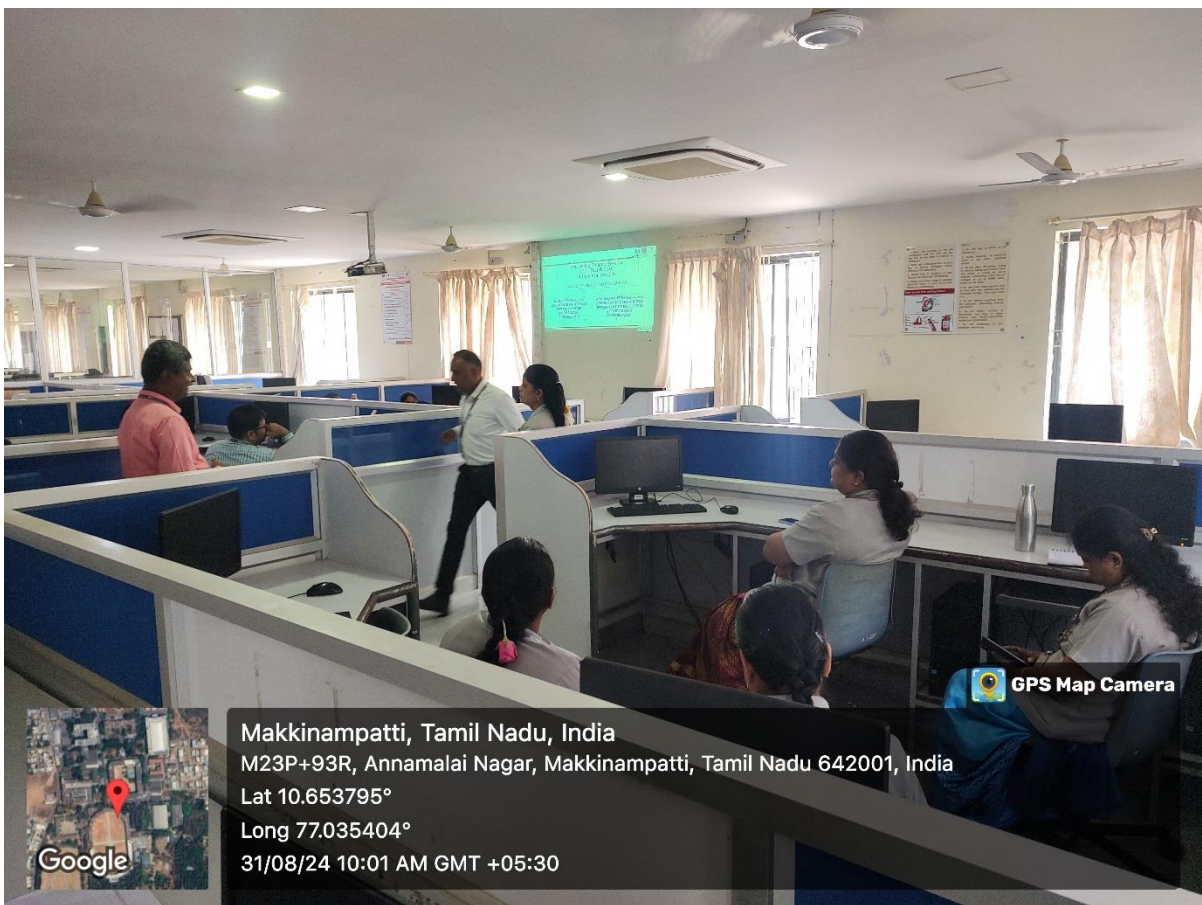
Dr. Uma Maheswari K

Assistant Professor (SG)/EEE

Date: 31.08.2024 Time : 9.30 A.M. to 4.30 P.M.

Venue: CAM Lab (C 216)

A group photograph of participants with resource person from MCET, Pollachi.



S. Prakash

Dean R&I

[Signature]

Principal

**--Sd--
Secretary**