



Estd :1939

Karnatak Law Society's

GOGTE INSTITUTE OF TECHNOLOGY

Jnana Ganga , Udyambag, Belagavi -590008
An Autonomous Institution under VTU , Belagavi



Estd :1979



Department of Electronics and Communication Engineering

CERTIFICATION COURSE OFFERED

Cognitive Computing and Visual Perception

Prerequisites : Basics of mathematics & fundamentals of python programming

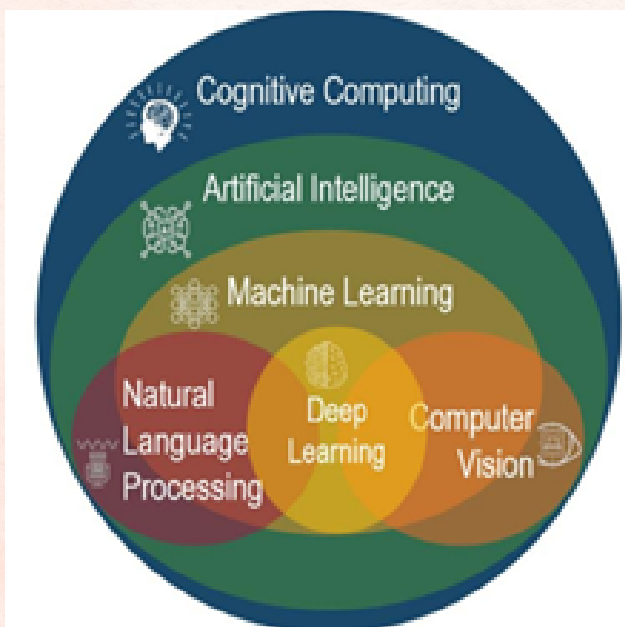
Objectives:

- Master cognitive computing principles
- Apply linear algebra in image processing problem-solving
- Critically evaluate cognitive models and algorithms in image processing

Unique Course - Cognitive Computing for Image Processing application and Visual Perception

- Python Based Image Processing and Computer Vision
- Essential Linear Algebra and Calculus Hands-On in NumPy, TensorFlow and PyTorch
- Implementation of Perceptron to Vision Transformer(ViT) for Imagery Application
- PyTorch for Deep Learning with Python

Live Project: Prostate Cancer (PCa) Diagnosis and Grading using Artificial Intelligence (AI) Tools



What we implement and learn during 30hours:

- Computer vision and digital image processing basics
- Artificial neural networks (ANN)
- Fundamentals of deep neural networks (DNN)
- Convolutional neural networks (CNN)
- Recurrent neural networks (RNN)
- Advanced topics: Generative Adversarial Networks (GANs) in vision
- Attention mechanisms in Natural Language Processing (NLP) with Transformer Architecture (Vision Transformer – ViT)

Course Instructor: **Dr. Anil B. Gavade**

Contact No: 9986471271

QR CODE for Course



After fee payment students should fill the Google form & submit the details to confirm registration- <https://forms.gle/QTHRXF6r6aStrobz5>

Maximum number of participants for a course is **30 REGISTRATION** on a first come first serve basis

QR CODE FOR PAYMENT



Last Date of REGISTRATION: 15 FEB 2024

Course duration : 30 Hrs

Course dates : **March 1st week (Tentative)**

Fees for the Certification programs:

Rs 1000 for GIT students

Rs 3000 for Industry participants

for more details visit

[syllabus link](#)

