Deep learning using python

The deep Learning with TensorFlow course will help you learn popular algorithms like CNN, using the latest TensorFlow 2.0 package in Python. This course is well-suited for professionals and beginners. This certification training is curated with the help of experienced industry professionals as per the latest requirements & demands. You will be working on various real-time projects like Emotion and Gender Detection, Auto Image Captioning using CNN and LSTM, and other relevant concepts to kickstart your Data Science career

Syllabus

- Fundamental Programming Concepts
- Basic Python Syntax
- Loops, Functions
- Conditional statements
- Basic Python Data Structures
- Python Packages and Modules
- Importing Your Own Code
- Installing Packages using PIP
- Data set
- Types of data sets
- Introduction numpy
- Python NumPy array
- operations on the Numpy array
- NumPy and random data
- NumPy array with images
- Introduction to pandas
- Series
- Data Frame
- Reading csv, excel, Json data
- Handling missing data
- Pandas group by
- Introduction to Matplotlib
- Introduction to deep learning
- Introduction to ANN
- Installing Tensorflow
- Neural Networks, Activation Functions
- Backpropagation

- Tensorflow vs Keras

- TF Regression Model Evaluation and

  Predictions

- **4 mini Projects**

What you will learn

- Understand the landscape of Python data visualization libraries
- Create static and interactive charts using specialized Python libraries
- Develop an appreciation for what is involved in Learning models from data
- Design convolution networks for handwriting and object classification
- Evaluate the performance of different deep learning models (e.g., with respect to the bias-variance trade-off, overfitting and underfitting, and estimation of test error).

SKILLS GAIN