National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 13 Departments offering eight undergraduate and 32 post-graduate programmes besides doctoral programmes. About 5000 students across the country and about 500 international students study in the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure, state of the art library, seminar halls guest house and laboratory.

About Center for Continuing Education
The Center for Continuing Education NIT Warangal organizes FDPs/Training programmes/Seminars/Workshops etc., in the frontier areas of Science, Engineering, Management, Humanities, Social Science and Socially relevant themes on self-financing basis in three different modes: (i) At NIT Warangal (ii) At NIT Warangal in collaboration with other organizations/Engineering Colleges / Institutes (iii) By NIT Warangal Faculty at the Host Organization/Institute.

About Department of Computer Science & Engg
The Department of Computer Science and Engineering (CSE) offers B.Tech course in CSE, M.Tech courses in CSE, Information Security (IS) and Master of Computer Applications (MCA). The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like Microsoft, IBM, Oracle, Accenture, Infosys, TCS, EMC2, C-DAC, Motorola, NIC, Sun Micro Systems, SPSS and tie up with IISc in certain areas. Department conducts various sponsored programmes like GIAN, International and national conferences throughout the year.

Course Content
Introduction: Getting Started, Keywords and Identifiers, Python Operators, Python Namespace, Python I/O and import, Statements & Comments, Python Variables, Python Datatypes, Python Type Conversion,
Python Flow Control: Python if...else, Python for Loop, Python while Loop Python break and continue, Python Pass
Python Functions: Python Functions, Function Argument, Python Recursion Anonymous, Global, Local and Nonlocal, Python Global Keyword, Python Modules, Python Package
Python Files: Python File Operation, Python Directory, Python Exception Python Exception Handling, Python User-defined Exception
Python Object & Class: Python OOP, Python Class, Python Inheritance, Python Operator Overloading.

Python Advanced Topics: Python Iterator, Python Generator, Python Closure, Python Decorators, Python Property, Python Reg Ex, Python Example.
Software: Jupiter Notebooks, Anaconda, Tensorflow, CUDA
Packages: Pandas, Numpy, and Matplotlib
Artificial Learning: Artificial Narrow Intelligence, Artificial General Intelligence, Artificial super Intelligence, Challenges and opportunities in Artificial Intelligence
Deep Learning: Conventional Neural Networks, Recursive Neural Networks, Generative adversarial networks, Deep Natural language Processing, ANN, Back Propagation, Types of RNN, Deep RNN and Bidirectional LSTM
90% Session will be Hands on/Practicals.
Course Objectives: Upon completion of the STC the participants/trainee can understand/Gain knowledge in solving the real world problems in AI, ML and DL.

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