

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Organizing Webinar On

Advanced Python for Enterprise Applications

About The webinar:

In this webinar, the speaker disseminates his real-time exposure on advanced programming concepts and techniques which are not generally taught in academics and heavily used in the industry. Speaker shares his experience with code examples, and demonstrates, how to relate theoretical concepts with real-time scenarios. Concepts include 1. Uses-Cases for Advanced Data Structures 2. Data & IO 3. Object-Oriented Design 4. Concurrency 5. Networking & Web 6. Quality Metrics etc.,



Resource Person

Mr. Narendra Allam,

CEO, Rossum Computing Pvt. Ltd.

DATE: 10-06-2020 to 15-06-2020

TIME: 2.00 PM to 5.00 PM

REGISTRATION LINK: <https://tinyurl.com/fdpjntuk2020>

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OSD, JNTUK

Webinar Convener

Prof. Vemu Sreenivasulu,
Director, FDC, JNTUK

Webinar Content

DAY 1: INTRODUCTION OF PROGRAMMING CONSTRUCTS IN VARIOUS LANGUAGES, DEEP DIVE INTO DATA STRUCTURES, REAL TIME USE-CASES IN APPLICATIONS (NOT THE IMPLEMENTATION), LISTS, TUPLES, SETS, DICTIONARIES, HEAPQ, GRAPHS

DAY 2: SELECTING DATA STRUCTURES FOR A SPECIFIC PROBLEM. COMPARISON WITH POPULAR FORMATS, JSON, XML, DATABASES (SQL & NOSQL)., LIST OF TUPLES, LIST OF DICTIONARIES, IMPORTANCE OF HASHING, FUNCTIONS, MODULES, WRITING API, RECURSION & CACHING, DECORATOR

DAY 3: NEED FOR OBJECT ORIENTATION, PROBLEMS WITH PROCEDURAL, ALL OOPS FEATURES, DESIGN AND ARCHITECTURE, THE JOURNEY, FROM PROCEDURAL, OBJECT ORIENTATION TO FUNCTIONAL PROGRAMMING, DESIGN PATTERNS INTRODUCTION

DAY 4: HOW MUCH CONCURRENCY IS REQUIRED, PARALLELISM, PROGRAM LAYOUT, MULTI PROCESSING AND MULTI THREADING. LOCKS (MUTEX AND SEMAPHORE), CRITICAL SECTION, DEAD LOCK AND LIVE LOCK, LOCK-FREE PROGRAMMING, IO MODELS, ASYNCHRONOUS PROGRAMMING, JSON, XML, PICKLE, READING DATA WITH PANDAS EXCEL, CSV, JSON

DAY 5: TCP/IP, SOCKETS, WRITING SERVERS & CLIENTS, RPC, CORBA, RMI, COM+, CGI, REST, WEBSOCKET, WEBRTC, GRPC, GRAPHQL, WRITING A HIGH-PERFORMANCE SERVER WHICH CAN HANDLE 10 M CONNECTIONS, WEB ARCHITECTURES MVT, SOA, MICROSERVICES

DAY 6: QUALITY METRICS, EXCEPTION HANDLING, UNIT TESTING, CODING STANDARDS, LOGGING, PROFILING, CODE VERSIONING FURTHER LEARNING, Q&A

About the Resource Person

Mr. Narendra Allam, is a renowned programmer, trainer, and mentor in the IT industry. His career started as a C/C++ programmer. For 16 years, Naren contributed to **Microsoft, Cisco, Bank of America**, and a few other MNCs, worked across numerous technologies, and solved critical business problems.

Naren started his own IT firm **Rossum Computing**, an EdTech Company in 2017. Truequalify, smart HR and Editor Central are the few applications developed by Rossum computing. Visit www.truequalify.com, <https://rossum.io> for more info.

He is the founding member of Credito Network (Australia) and has a **patent** on Financial Fraud Analytics (Block-chain architecture & Artificial Intelligence). Most of his time is spent in corporate trainings and development with various technologies, including, programming techniques, machine learning, blockchain, and also provides consultation to universities across India and overseas.

He started training in the year 2004. Since then, Naren trained over 10000 candidates across 300+ batches, which is over 17000 training hours and counting. His unique style of teaching with real-time use-cases made him a prominent Python trainer in India and known as pythonguru. Visit www.pythonguru.in for more info.