

NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

Workshop on Data Science in Python

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The department of Information Science and Engineering has conducted a workshop under i-SWET(G) club on the topic “Data Science in Python” for the 7th semester students on 28th Aug, 2019 under the supervision of ISE Head of the department, Dr. Anandhi R J at ISE department. The expert speaker, Mr. Guruprakash Sivabalan was invited to conduct the same.

- Guruprakash is the Founder & Chief Executive Officer of Xobin Technologies Private Limited. Guruprakash has a decade of experience in building scalable web products using cutting edge technologies. Being the CEO of Xobin , he leads the entire product division of the company which is been used by over 300+ Startups, Enterprises and Fortune 500 Companies.

VARIOUS SESSIONS THROUGHT THE PROGRAM:







Workshop on Data Science with Python taken by Mr. Guruprakash

TOPICS COVERED:

- Introduction to Data Science
- Why Python is used in Data Science

❖ INTRODUCTION TO DATA SCIENCE

- Data science is a multidisciplinary blend of data inference, algorithm development, and technology in order to solve analytically complex problems.
- At the core is data. Troves of raw information, streaming in and stored in enterprise data warehouses. Much to learn by mining it. Advanced capabilities we can build with it. Data science is ultimately about using this data in creative ways to generate business value.
- This aspect of data science is all about uncovering findings from data. Diving in at a granular level to mine and understand complex behaviors,

trends, and inferences. It's about surfacing hidden insight that can help enable companies to make smarter business decisions.

- As needed, data scientists may apply quantitative technique in order to get a level deeper – e.g. inferential models, segmentation analysis, time series forecasting, synthetic control experiments, etc. The intent is to scientifically piece together a forensic view of what the data is really saying.

❖ Why Python is Used In Data Science

- Data science involves extrapolating useful information from massive stores of statistics, registers, and data. These data are usually unsorted and difficult to correlate with any meaningful accuracy. Machine learning can make connections between disparate datasets but requires serious computational sophistry and power.
- Python fills this need by being a general-purpose programming language. It allows you to create CSV output for easy data reading from a spreadsheet alternatively, more complicated file outputs that can be ingested by machine learning clusters for computation.

The outcome of this program is that the students were provided good knowledge about the python concepts

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