

## Report

### workshop on Physics in Data: Crafting careers in engineering science and analysis held on 2<sup>nd</sup> March 2024, Department of Physics, Anantapur Campus

To impart the necessary skills and provide exposure to students on current trends in technology, as well as the requirements of the industry, a career guidance workshop on data science was conducted. An industrial expert with more than 25 years of industry experience, Mrs.M.N. Sai Geetha, Principal Data Architect, TESCO, Bangalore, served as the resource person. The workshop was organized by the department of Physics and coordinated by Dr.C. Prathibha, Associate professor, DPHY.

#### Session I:

The workshop commenced with Vedam chanting by BSc MPC students. The welcome address was delivered by Dr. C.Prathibha, Associate Head, Department of Physics. She emphasized that Data Science is a multidisciplinary field, requiring slightly more sophisticated tools to handle big data effectively. By acquiring these advanced tools, physics students will be better equipped for data science. She encouraged participants, stating that with a sprinkle of exposure and add-ons to their core physics courses, they can align themselves with data science. The purpose of this workshop is to guide participants in this direction.

Ms. Hyndavi then introduced the workshop resource person Mrs. M.N. Sai Geetha.

Taking over the session, resource person enlightened the participants with profound insights using various examples of handling big data and emphasized the importance of sophisticated tools to avoid drawing incorrect conclusions from data. She introduced various tools for dealing with big data, with a focus on Python programming and its advantages and ease in data science.

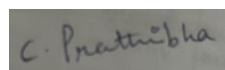
Her ability to seamlessly blend data concepts with interaction created an engaging atmosphere, making the session not only informative but thoroughly enjoyable.

#### Session II:

This was more of a practical session. Students were divided into three groups, namely Data Analysts, Data Scientists, and Data Engineers. They were presented with different case studies and tasked with discussing how they would prioritize the sequence of work. The challenge included identifying whose work to prioritize, where to gather information, and developing their solutions.

This brainstorming session generated a lot of interest among participants, who were actively involved. Each group devised a unique solution, which was then discussed and analysed by the resource person. The session concluded with hands-on exposure to using Python programming and the Pandas library for data handling

The workshop concluded with the presentation of a small token of appreciation to the resource person and a vote of thanks delivered by Ms. Sai Varshini



5-3-2024

Workshop convener

Dr. C.Prathibha,

Associate Head, Department of Physics