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NARSIMHA REDDY ENGINEERING COLLEGE

UGC Autonomous Institution, Affiliated to JNTUH, Approved by AICTE
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REPORT

On

Five-Day Boot camp on

Data Visualization using Power BI

November 02-06, 2026

Venue: 406, IT Park

CHIEF PATRONS

- Shri. J. Narsimha Reddy — Chairman
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- Dr. G. S. Naveen Kumar, Dean, Quality

Faculty Coordinators:

- Mrs. M. Shravani
- Mrs. V. Sudha Rani
- Mrs. G. Sailaja
- Mr. S. L. Hemanth Chandra

Student Anchor:

- Sneha Sri, II CSE

Title of The Event	**Five-Day Boot Camp on** **Data Visualization using Power BI**
Resource Person	Mr.Raja Venkata Ram Sr. Data Scientist Verizon
Program Type*	Boot Camp/ Skill Development Program
Start Date : **End Date :**	02-11-2026 06-11-2026
Mode of Session	Offline
Nominations	Received 85 nominations from national wide and awarded for 22 members
Objective of The Event	The major objectives of the bootcamp were: • To introduce students to the fundamentals and applications of data visualization. • To provide hands-on training in Microsoft Power BI. • To familiarize students with data import, cleaning, and transformation techniques. • To develop practical knowledge of Data Analysis Expressions (DAX) and data modelling. • To enable students to design interactive dashboards and meaningful visual reports. • To introduce students to Tableau and its role in data visualization. • To improve analytical thinking, interpretation, and data-driven decision-making skills. • To encourage students to apply data visualization techniques in academic projects and real-world applications.
Outcome	The five-day bootcamp provided students with an opportunity to develop practical exposure to data visualization and business intelligence tools. The key expected learning outcomes were: • Improved understanding of data visualization concepts and applications. • Practical familiarity with Microsoft Power BI Desktop. • Exposure to data import, transformation, and modelling techniques. • Understanding of basic DAX calculations and analytical measures. • Ability to create and interpret visual reports and dashboards. • Awareness of Tableau, R, and Python as supporting tools in data analytics. • Improved analytical thinking and data interpretation skills. • Increased awareness of industry expectations and the importance of practical technical skills.

Brief Report:	The Department of Computer Science and Engineering, Narsimha Reddy Engineering College, organized a Five-Day Bootcamp on **"Data Visualization Using Power BI"** from November 02 to 06, 2026, for II B.Tech CSE students of Sections D and E. The primary objective of the bootcamp was to enhance students' practical knowledge and technical skills in data visualization, business intelligence, data analytics, and dashboard development using Microsoft Power BI. The programme was designed to provide hands-on exposure to industry-relevant tools and techniques and bridge the gap between academic learning and industry expectations. The sessions were handled by Mr. Raja Venkat Ram V, Senior Data Scientist at Verizon, who shared his professional experience and industry-oriented insights with the participants. **Mapping with PO, PSOs & SDG:** **Program Outcomes (POs):** **PO1 (Engineering Knowledge)** through the application of computer science concepts in data visualization and analytics; **PO2 (Problem Analysis)** by enabling students to analyse datasets, identify patterns, and interpret data for effective decision-making; **PO3 (Design/Development of Solutions)** through the development of interactive dashboards and visual reports using Power BI. **PO5 (Modern Tool Usage)** by providing hands-on exposure to Power BI, Tableau, Python, and R; **PO10 (Communication)** by encouraging students to present analytical findings through graphical reports and dashboards; **PO12 (Life-long Learning)** by motivating students to continuously upgrade their knowledge of emerging data analytics and business intelligence technologies. **Program Specific Outcomes (PSOs):** **PSO1** by enabling students to apply computer science and engineering concepts to analyse datasets and address real-world problems. **PSO2** by providing practical exposure to modern computing technologies and tools through the creation of interactive dashboards, data models, and analytical reports using Power BI and related tools. **Sustainable Development Goals (SDGs):**

	SDG 4 – Quality Education by providing practical, industry-oriented training and enhancing students' digital competencies. **SDG 8 – Decent Work and Economic Growth** by developing industry-relevant skills in data analytics and business intelligence, thereby improving students' employability. **SDG 9 – Industry, Innovation and Infrastructure** by promoting the adoption of modern technologies, innovation, and data-driven approaches to problem-solving. **Overall Mapping:** Overall, the bootcamp strengthened outcome-based learning by bridging the gap between theoretical knowledge and practical industry requirements. It encouraged students to develop analytical capabilities, adopt modern technological tools, communicate data-driven insights, and prepare themselves for emerging career opportunities in the IT industry.

Inaugural Session

The bootcamp commenced on November 02, 2026, at 09:30 AM at 406, IT Park, NRCM.

The inaugural session was attended by the college leadership, department representatives, faculty coordinators, the resource person, and participating students.

The dignitaries highlighted the importance of emerging technologies, data analytics, and business intelligence in the present IT industry. They encouraged students to make effective use of the opportunity and actively participate in all practical sessions.

The resource person introduced the importance of data visualization and explained how organizations use business intelligence tools to convert raw data into meaningful insights for informed decision-making.

The inaugural session of the Five-Day Bootcamp on Data Visualization Using Power BI was held on November 02, 2026, in the presence of the college leadership, including Sri J. Narsimha Reddy Garu, Chairman; Sri Jakkula Trishul Reddy Garu, Secretary; Sri J. Thrilok Reddy Garu, Treasurer; Dr. A. Mohan, Director; and Dr. R. Lokanadham, Principal. Dr. P. Ramesh Babu, HOD, CSE, and Dr. G. S. Naveen Kumar, Dean – Quality were also present along with the resource person, Mr. Raja Venkat Ram V, Senior Data Scientist, Verizon, faculty members, and participating students. The dignitaries highlighted the importance of industry-oriented technical training and encouraged students to make the best use of the opportunity to enhance their practical knowledge and technical skills.

Technical Sessions and Training Activities

The five-day bootcamp focused on practical learning and hands-on activities. The major technical areas covered and included in the assessment were:

Introduction to Data Visualization

- Fundamentals and importance of data visualization.
- Role of visualization in business intelligence.
- Understanding different types of charts and graphical representations.
- Introduction to Power BI and Tableau.

Data Import and Transformation

- Importing datasets into Power BI.
- Understanding different data sources.
- Data cleaning and transformation.
- Preparing datasets for visualization and analysis.

Data Modelling

- Understanding data relationships.
- Structuring datasets for effective analysis.
- Developing meaningful data models.
- Importance of data modelling in dashboard development.

DAX Calculations

- Introduction to Data Analysis Expressions (DAX).
- Understanding calculated columns and measures.
- Performing basic calculations and aggregations.
- Applying DAX for meaningful data analysis.

Data Visualization and Dashboard Development

- Creating different types of visualizations.
- Developing interactive dashboards.
- Presenting category-wise, sales-related, and cost-related information.
- Interpreting visual reports for effective decision-making.

Introduction to Supporting Tools

Students were also introduced to the installation procedures and basic setup requirements for:

- R Programming
- Python Programming
- Microsoft Power BI Desktop
- Tableau

Hands-on Training and Student Participation

The bootcamp emphasized experiential learning through practical exercises and demonstrations. Students were encouraged to work with datasets, explore visualization options, develop dashboards, and understand the process of converting raw data into actionable information.

The resource person provided practical demonstrations and guided students through various technical activities. Students actively participated in the sessions and gained exposure to tools and techniques used in industry.

The programme also encouraged students to develop confidence in using analytical tools and applying them to real-world problems.

Assessment and Evaluation

An assessment test was conducted on November 05, 2026, to evaluate students' understanding and practical knowledge acquired during the bootcamp.

The assessment covered the following topics:

1. Data Import and Transformation.
2. DAX Calculations.
3. Data Modelling.
4. Interpretation and Decision-Making.
5. Data Visualizations using Category, Sales, and Cost data.
6. Installation steps for R, Python, and Power BI Desktop.

The performance of individual students was evaluated, and the best-performing students from each section were identified for recognition.

Valedictory Session and Prize Distribution

The valedictory session was conducted on November 06, 2026, at 03:00 PM at 406, IT Park, NRCM.

The session provided an opportunity to reflect on the learning outcomes of the five-day programme. The dignitaries appreciated the efforts of the resource person, faculty coordinators, and students for making the bootcamp successful.

The resource person shared his observations about student participation and encouraged students to continue developing their technical and analytical skills.

Prize Winners

The following students were recognized for their performance in the assessment:

Prize	Section D	Section E
First Prize	Mallivada Vamshi	Mohammed Junaid
Second Prize	Kotagiri Spandana	Moosa Mamoon Ibrahim

The prize winners were appreciated for their performance, active participation, and understanding of the concepts covered during the programme.

Appreciation and Felicitation

The Department expressed its sincere appreciation to Mr. Raja Venkat Ram V, Senior Data Scientist, Verizon, for dedicating his valuable time and sharing his industry expertise with the students.

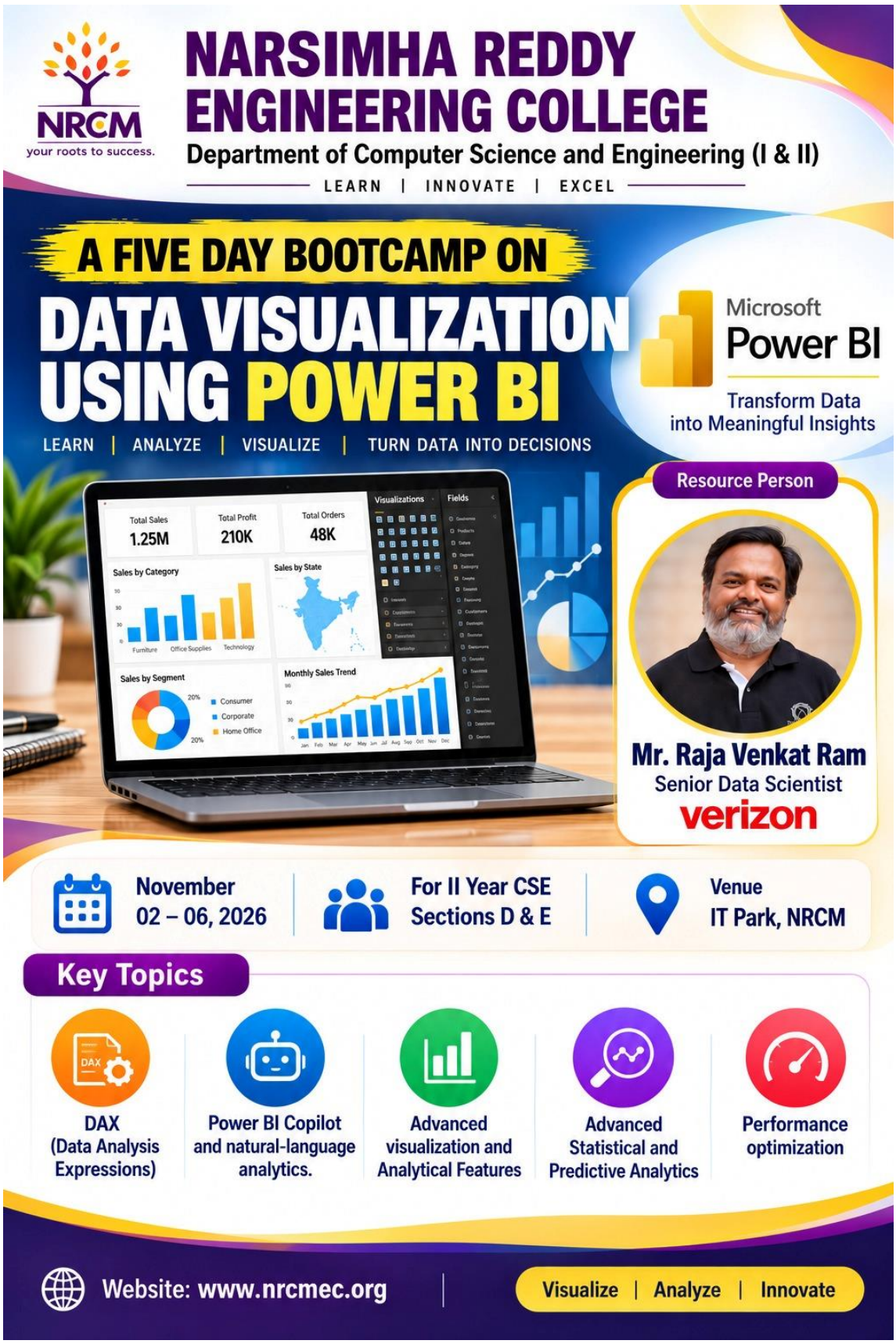
Faculty members who contributed to the successful organization and coordination of the bootcamp were also appreciated:

- Mrs. M. Shravani
- Mrs. V. Sudha Rani
- Mrs. G. Sailaja
- Mr. S. L. Hemanth Chandra

The department acknowledged the support and encouragement extended by the college management and academic leadership.

Report Submitted by:
Dr. G. S. Naveen Kumar
Dean – Quality
Narsimha Reddy Engineering College

Event Poster



Sample Photographs


















NARSIMHA REDDY ENGINEERING COLLEGE
Five-Day Bootcamp on
Data Visualization Using Power BI
GPS Map Camera
Hyderabad, Telangana, India
Hf74+h5m, Maisammaguda, Bhadurpalle, Hyderabad,
Telangana 500100, India
Lat 17.563693° Long 78.45526°
Friday, 06/11/2026 03:33 PM GMT +05:30
Note: Captured by GPS Map Camera


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