Dayananda Sagar University
School of Engineering
Department of Computer Science and Engineering (Data Science)
EVENTS

2021 - 2022

Five days Value added Course "Data Science Skills for Digital Tribe"
Date: 24th-31st Jan 2022

The Dept. of CSE (Data Science) has successfully organized a 5 days value-added course on "Data Science Skills for Digital Tribe". The targeted audience was 2nd Year students of the Department of CSE. The course was organized in virtual mode. Around 100+ students were registered for the course. All students were trained on both theoretical and practical knowledge of the present technologies in the Data Science domain. At the end of the course an evaluation was carried out and the students have performed satisfactorily, feedback was taken from the students and it is found to be satisfactory.

Resource Persons:

Dr. Shaila S G
Dr. Basavaraj N Hiremath
Dr. Kiran B Malagi
Dr. Rajesh T M
Dr. Revathi V
Dr. Pramod Naik
Dr. Renukadevi M N
Prof. Shivamma D

Event brochure:

Dayananda Sagar University
Department of Computer Science and Engineering (Data Science)
Cordially invites you to the
Value added course
on
DATA SCIENCE SKILLS for DIGITAL TRIBE
(24th-31st January, 2022)

Libraries:
Scikit-learn
NumPy

32 Hours
Course
in
Virtual
Mode

BI Tools:
in-Memory
infuse-self service

Syllabus

Course Outcomes

24th January, 2022 — Module 1: Introduction to Data Science & BI with DAV – 6hrs

25th January, 2022 — Module 2: Introduction to Modern tools and Libraries – 6hrs

27th January, 2022 — Module 3: Mathematics for Data Science & Data Pre-processing and Feature Extraction – 6hrs

28th January, 2022 — Module 4: Machine learning Algorithms & BI tools Self-Service Dashboards – 6hrs

31st January, 2022 — Case studies – 5hrs

- Outline the Roles of a Data Analysts and Scientists
- Apply Techniques and Tools for Data Transformation
- Understand the KDD through Data Mining concepts
- Apply Machine Learning Techniques
- Use Data Visualization and Optimization Tools and Techniques

Hurry up

Targeted Audience:
4th Semester Students of CSE Department
Total number of seats – 90 (First Come First Serve)

Registration Link : https://forms.gle/4GtVChdmB3XK2OrS6

Resource Persons – Faculty of CSE Department
Dr. Girisha G S, Dr. Shaila S G, Dr. Kiran B. Malagi, Dr. Basavaraj N. Hiremath, Dr. Pramod Naik, Dr. Rajesh T M, Dr. Renuka Devi, Dr. Revathi V, Prof. Shivamma, Prof. Pooja Pandey

Few glimpses:
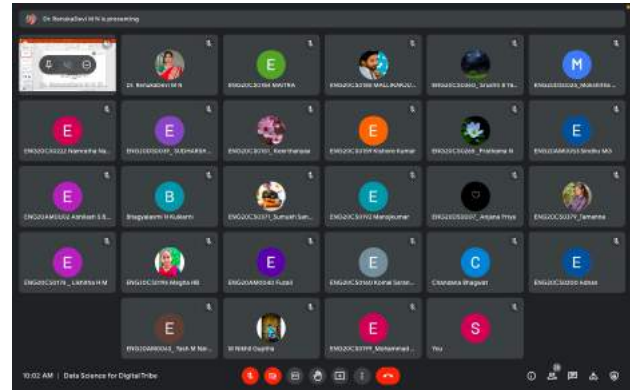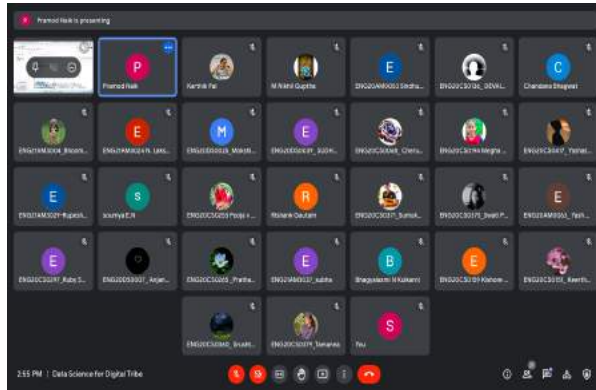
Webinar: "Primer on Data Science Tools and Techniques"
Date: 09 April, 2022

The Dept. of CSE (Data Science) has successfully organized a webinar on "Primer on Data Science Tools and Techniques". The targeted audience was 2nd, 3rd and 4th year students of the all the programs of the Department of CSE, ECE and Mech. The course was organized in virtual mode. Around 100+ students were registered for the course and 90+ students attended the webinar. All students were trained on both theoretical and practical knowledge of the present technologies in the Data Science domain. At the end of the course an evaluation was carried out and the students have performed satisfactorily, feedback was taken from the students and it is found to be satisfactory.

Key Takeaways:

- To provide an insight into real-world industry experience using Data Mining in Finance domain about fraud detection
- To apply Techniques and Tools for Data Transformation
- To apply Machine Learning Techniques and discuss on various performance and parameters
- To make use of Data Visualization and Optimization Tools and Techniques

Resource Person: Ashish Jain

Data Scientist @ Infosys Ltd

Event Brochure:

Few Glimpses:
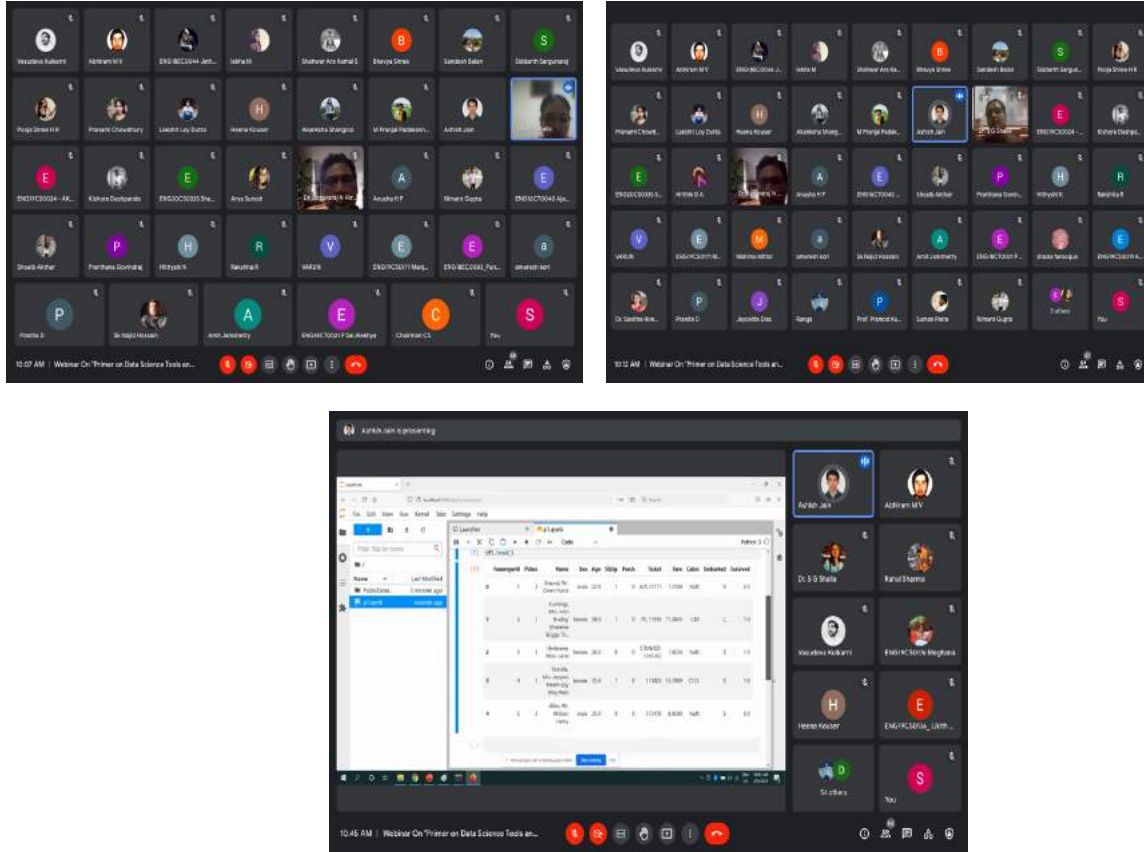
Webinar on **"Data Analytics in Healthcare"**
Date: 23rd April, 2022

The Dept. of CSE (Data Science) has successfully organized a webinar on "Data Analytics in Healthcare". The speaker Dr. Eesha Sharma was the resource person. The targeted audience was 2nd, 3rd, 4th year students and scholars of all the programs of the Department of CSE, ECE and Mech. The course was organized in virtual mode. Around 100+ students were registered for the course and 90+ students attended the webinar. All students were trained on both theoretical and practical knowledge of the data analysis on healthcare domain and technologies in the Data Science area. At the end of the course an evaluation was carried out and the students have performed satisfactorily, feedback was taken from the students and it is found to be satisfactory.

As the speaker has an expertise in the domain of mental health research, she has discussed the results of demographic data and challenges on data banking with the importance of longitudinal and cross sectional analysis of the data. She has actively guided a few clarifications and queries of the participants.

Resource Person: Dr. Eesha Sharma, Assistant Professor,
                          Dept. of Child and Adolescent Psychiatry
                NIMHANS Bengaluru

Event Brochure:

Few glimpses:
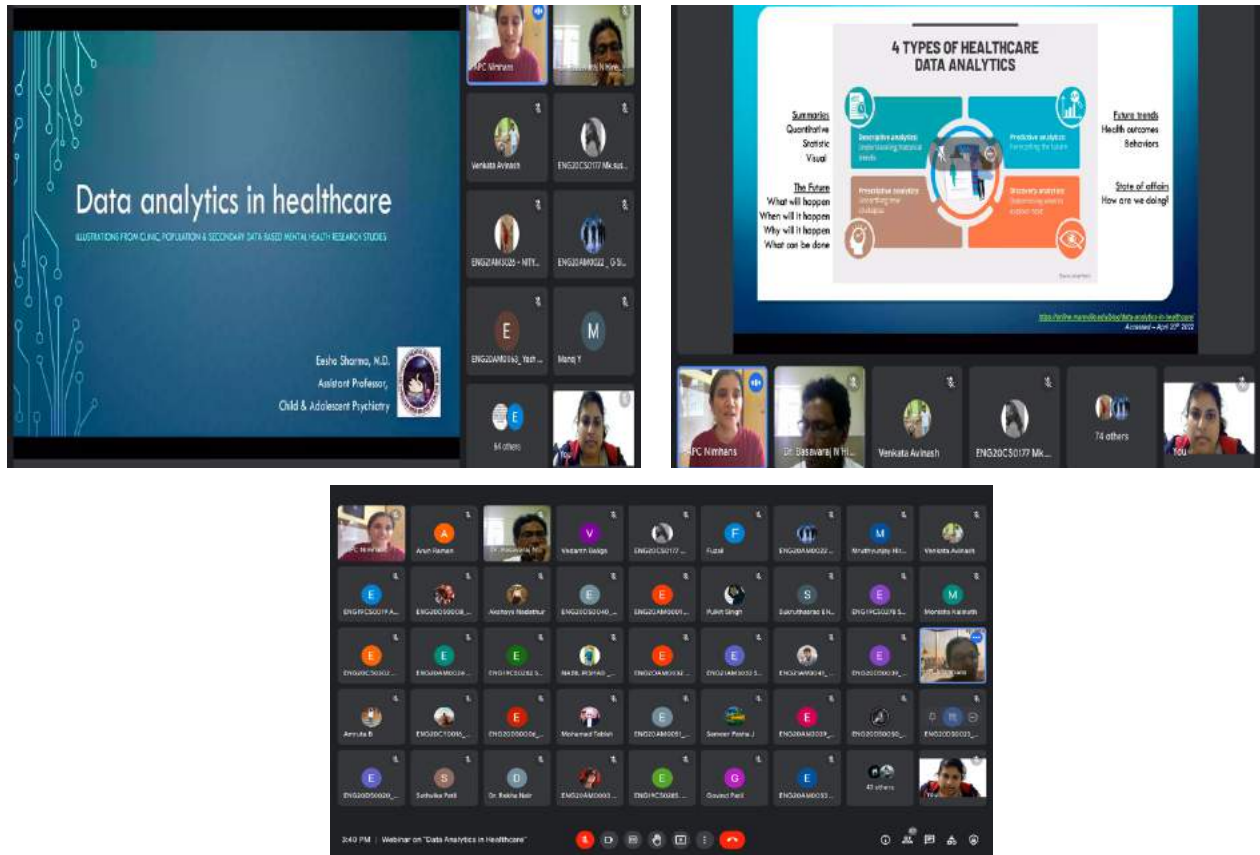
"Computer Awareness Program under NSS Activity"

Date: 22nd July, 2022

Data Analytics and Visualization Club, Data Science Program, Dept. of CSE has successful completed the NSS activity **"Computer Awareness Program" on 22nd July, 2022 for the students of Higher Primary School and High School, Cheeluru Bangalore (DSU Adopted Village)** organized by the **Department of Computer Science and Engineering (Data Science)**

Event Brochure:

Key Takeaways:

The students from the Data Science program gave a session on the basic knowledge and working of computers, the session was informative and interactive. The students were also given basic knowledge of MS Word, MS PowerPoint and MS Excel. The session has proven to be very inspiring and informative for the students. The mini quiz was conducted to test the knowledge gained by the students, the students were very happy to participate in the quiz.

Educational goals:

- Understanding the basic structure and functioning of input, output, and storage devices such as monitor, keyboard, mouse, speaker, hard disk, CD drive, scanner, and printer.
- Acquire intuitively the ideas of how computers work, acquire mouse skills such as move, click, double click, and drag & drop.
- Operate computer systems in Windows environment and get familiar with basic MS Word, MS PowerPoint and MS Excel.

Learning achievements:

- Students got a basic idea about computers and computer peripherals.
- The presentation was incorporated with supportive images.
- Students were motivated positively by the animation video computer.
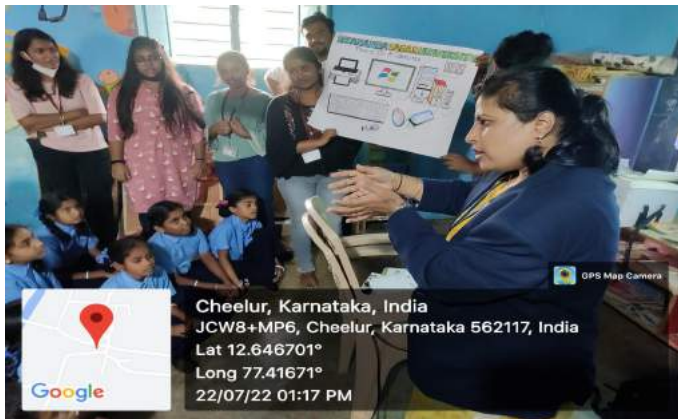
Value added course on Machine Learning with Hands On
(Tensorflow/Python)
Date: 05th-9th July, 2022 (Offline)

Data Analytics and Visualization club, Dept. of CSE (Data Science) has successfully organized a 5 days Value Added Course on **"Machine Learning with Hands On (Tensorflow/Python)"**. The targeted audience was B. Tech and M. Tech students of the Department of CSE. The course was organized in offline. Around 60+ students were registered for the course. All students were trained on both theoretical and practical knowledge of machine learning. At the end of the course an evaluation was carried out and the students have performed satisfactorily, feedback was taken from the students and it is found to be satisfactory.

Resource Person: Dr. Sanjeev Kumar
Professor as Practice
Dept. of CSE (Data Science), SoE, DSU

Event Brochure:

Key Takeaways:

Five days Machine Learning (ML) Value added course with hands on was conducted Dr. Sanjeev Kumar. He covered from basics of machine learning such as how intuitive human learning translates to machine learning, inductive vs reductive learning, hypothesis space and mathematical preliminaries to probabilistic and statistical framework of machine learning. Next some of the learning algorithms (Stochastic Gradient etc.) were covered. Some of the specific topics in supervised learning like various types of classification and regression methodologies and algorithms were taught. Then the geometric Neural networks and convolution neural Networks with brief ideas on Support Vector Machines were covered. Brief introduction to tensorflow was also provided to enable the participants to understand the hands on and implementation sessions better.

While mostly participants shown keen interest in theory sessions and interacted with questions, this training also had the hands on using python code and tensor flow libraries. The students and faculties attended and interacted well in these sessions as well with keen interest and various implementation related queries on regression, Bayes classification and Convolution Neural network (CNN) specifically on image feature extraction in CNN. Overall it was a great discussion and learning for the participants.