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A Report on Workshop on: Python for Data Science

Workshop Topic	***Workshop on Python for Data Science***
Date	13th May - 19th May
Time	9.00am to 5.00pm
Venue	Skill Lab
Resource Persons	S. Ravikumar [M.S Software System]
Inaugurated by	Dr. Narendra Viswanath Principal, Shridevi Institute of Engineering and Technology, Tumkur
Organizing Chairman	Dr. Basavesha D Head & Professor, Dept of CSE, SIET, Tumkur
Mentors	Dr. Udayakumar N.L, Dr. Bhargav H K
Target Audience	2th Sem CSE 'B' Sec Students
Objective	The primary objectives of the workshop were: - To introduce students to the real-world demands and expectations in the field of Data Science. - To provide hands-on experience with essential Python modules used in Data Science. - To help students understand their learning paths and career opportunities in Data Science. - To mainstream essential information and best practices in Data Science using Python.
Details of the Activity	The workshop on Python for Data Science was organized and conducted by the CSE dept. This Workshop was conducted for 6 days from Monday to Saturday. The students from the CSE dept showed a huge interest in this workshop. All the students gathered in the Skill lab and COE lab by 9:00 am to 5.00pm on Every day of workshop. On the first day brief idea was given to the students about the fundamentals of Python for Data Science was taught to the students and various doubts were solved. Also an idea about Bootstrap was given to the students. The next day onwards this Workshop Content:- followed The workshop covered various topics and modules essential for budding data scientists: 1. NumPy: - Use: NumPy is a powerful library for numerical computing in Python. It provides support for arrays, matrices, and many mathematical functions to operate on these data structures. - Applications: NumPy is widely used for numerical calculations, statistical analysis, and handling large datasets efficiently. 2. Matplotlib:

	- Use: Matplotlib is a plotting library used for creating static, interactive, and animated visualizations in Python. - Applications: It is used to generate graphs and plots to visualize data trends, distributions, and patterns. 3. Pandas: - Use: Pandas is an essential data manipulation and analysis library in Python. It provides data structures like Data Frame, which are ideal for handling structured data. - Applications: Pandas is used for data cleaning, transformation, analysis, and visualization, making it a cornerstone for any data science project. Workshop Highlights:- - Interactive Sessions: The workshop included interactive sessions where students engaged in coding exercises, group discussions, and hands-on projects. - Expert Guidance: Industry experts and experienced faculty members guided the students through the complexities of Data Science and Python programming. - Real-World Examples: The sessions were enriched with real-world examples and case studies, helping students understand the practical applications of their learning. Conclusion:- The workshop was a significant step towards equipping second-semester engineering students with essential skills in Python for Data Science. Such workshops are crucial in bridging the gap between academic learning and industry requirements. They provide students with a head start in understanding the demands of the field, identifying their learning paths, and preparing for future careers in technology and analytics. Future Prospects and Improvement Scopes: - Continued Learning: Encouraging students to further explore and specialize in Data Science and Python. - Advanced Workshops: Organizing advanced workshops and certification programs to deepen students' knowledge and skills. - Industry Collaboration: Strengthening collaborations with industry experts for real-world insights and internships. - Feedback Mechanism: Implementing a feedback mechanism to continuously improve the content and delivery of such workshops. This workshop has laid a strong foundation for the students of CSE, preparing them for the exciting and challenging world of Data Science.
Outcome	Python for Data Science is the fundamental process for starting with any of the projects. Also it is beneficial for the students as now they will be able to make their own Project successfully. Project Exhibition On Python for Data Science based on this workshop was also conducted by CSE dept.

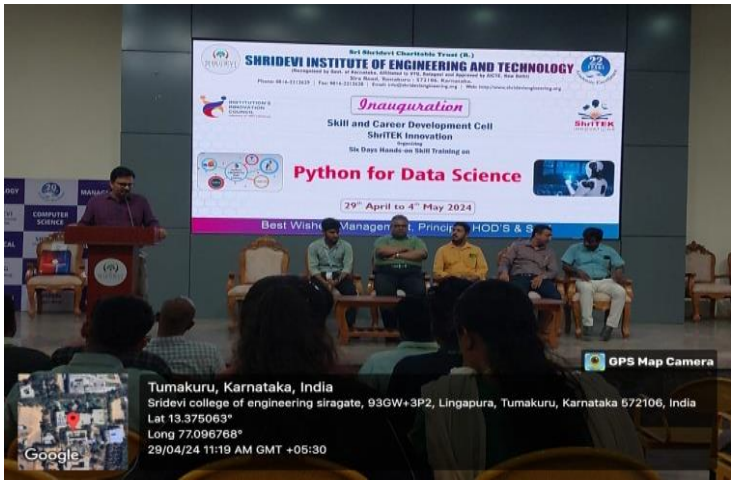
Prize Winners:

Project Title	Team Members	Prize
Smart Mirror	1. Shivani.T.C 2. Monika.H.C 3. Sindhu.V.H 4. Usha.A.M 5. Namitha.G 6. Soujanya 7. Sushmitha.C.I 8. Navya Shree	2-sem B 1st prize
Flymeds	1. Omkar.S,S 2. RakshithaY.V 3. Syed ayan 4. Padmashree 5. Ruchith 6. SiriR.S 7. Sadhana 8. Varshini	2-sem B 2nd prize

BROCHRE

Dr. Rajeswari R
Co-Ordinator

Dr. Basavesha D
HOD, CSE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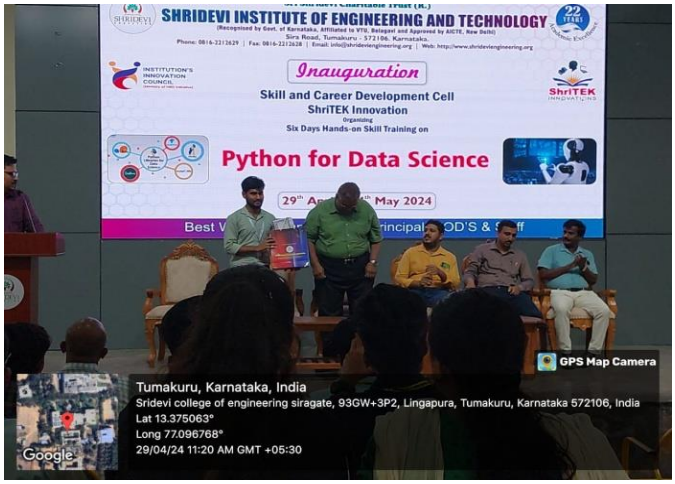
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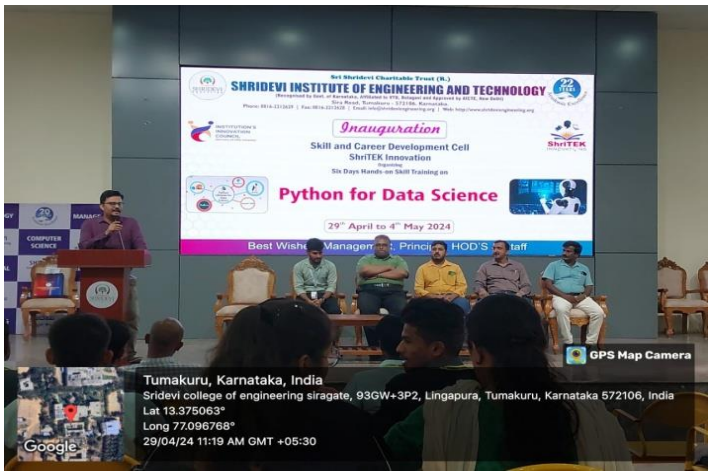
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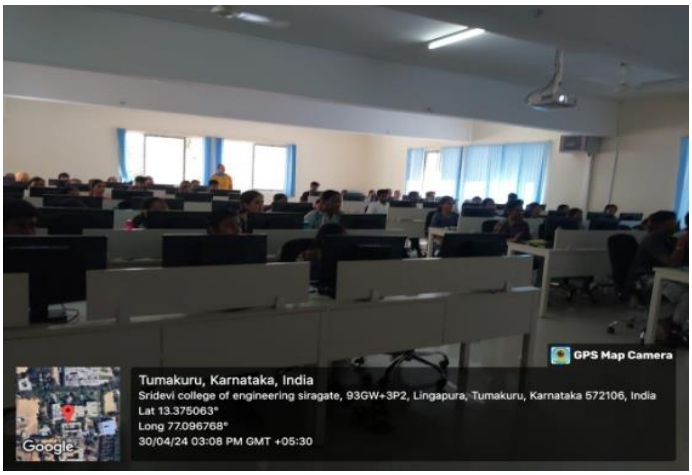
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A Report on Workshop on: Python for Data Science

Workshop Topic	***Workshop on Python for Data Science***
Date	**29th April 2024 - 04th May 2024**
Time	9.00am to 5.00pm
Venue	**CNR Lab**
Resource Persons	Praveen N Hongal Founder of Mitras IT Solutions
Inaugurated by	Dr. Narendra Viswanath Principal, Shridevi Institute of Engineering and Technology, Tumkur
Organizing Chairman	Dr. Basavesha D Head & Professor, Dept of CSE, SIET, Tumkur
Mentors	Dr. Kiran G M, Dr. Rajeswari R
Target Audience	**2th Sem CSE "A" Sec Students**
Objective	The primary objectives of the workshop were: - To introduce students to the real-world demands and expectations in the field of Data Science. - To provide hands-on experience with essential Python modules used in Data Science. - To help students understand their learning paths and career opportunities in Data Science. - To mainstream essential information and best practices in Data Science using Python.
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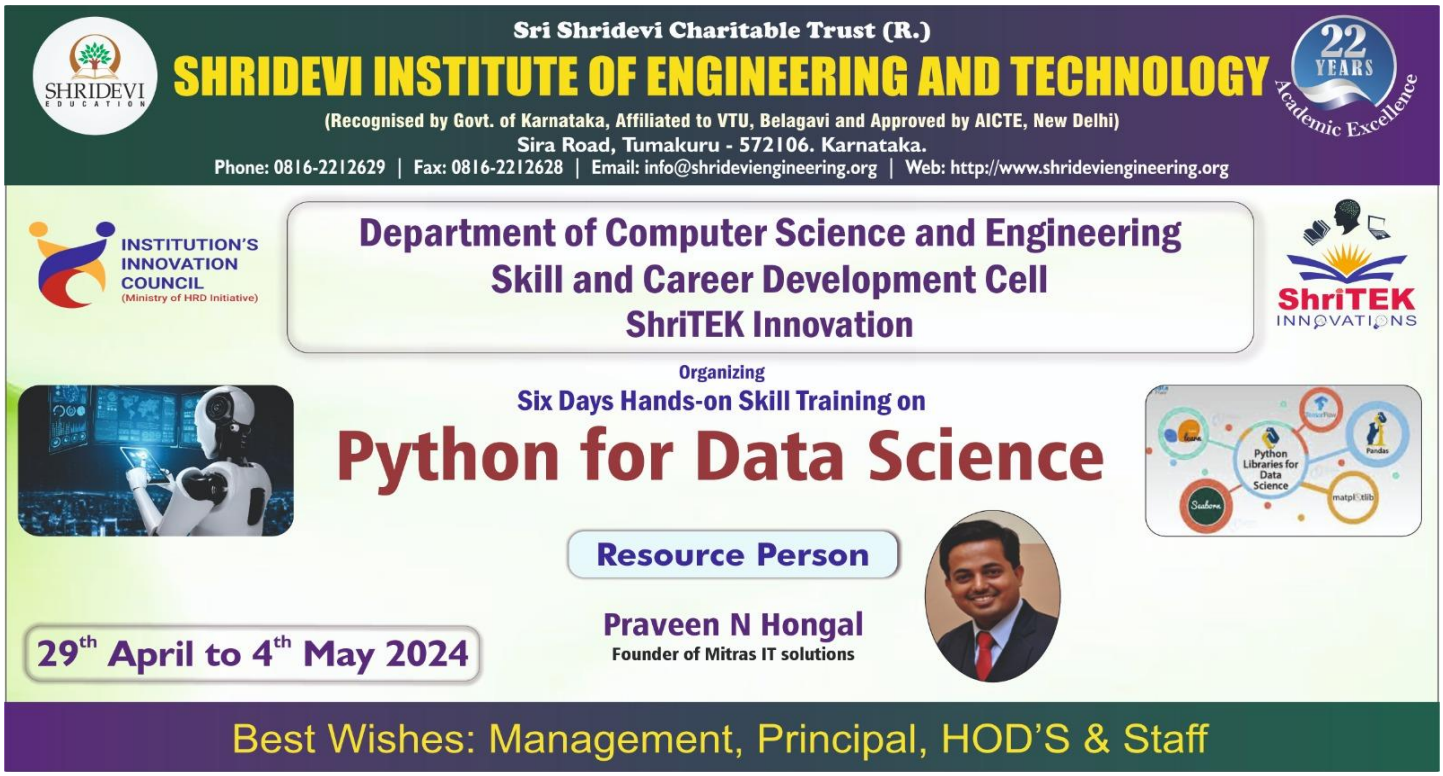
Outcome	Python for Data Science is the fundamental process for starting with any of the projects. Also it is beneficial for the students as now they will be able to make their own Project successfully. Project Exhibition On Python for Data Science based on this workshop was also conducted by CSE dept.

Prize Winners:

Project Title	Team Members	Prize
Fake News Detection	**1.** KARTIK B KENCHI **4.** LAXUMAN **2.** KAVYASHREE M **5.** MEGHANA H M **3.** KUSHALA S **6.** PALLAVI A R	2-sem A 1st prize
Tie-Tac-Toe Gmaes	**1.** MADHAV U **2.** ADITYA PATIL **3.** RAKUM **4.**VARSHITHA M G **5.** ANANYA K E	2-sem A 2nd prize

BROCHURE



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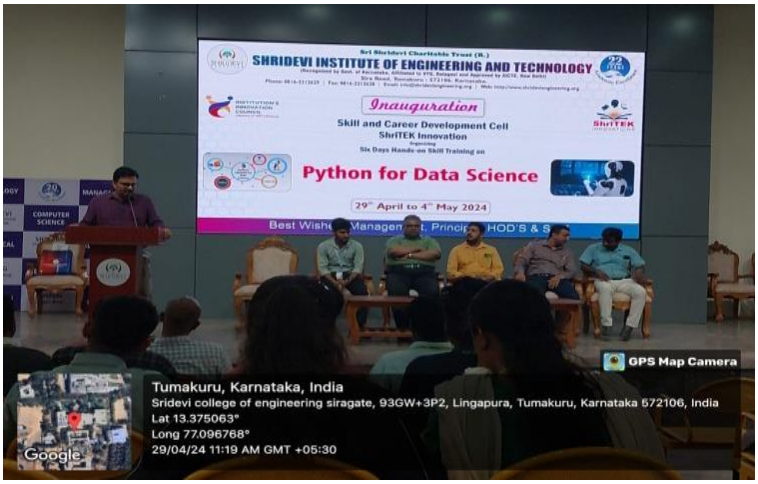
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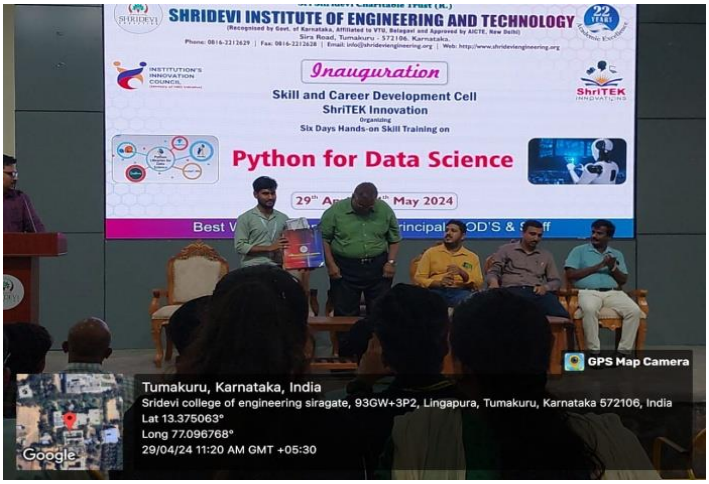
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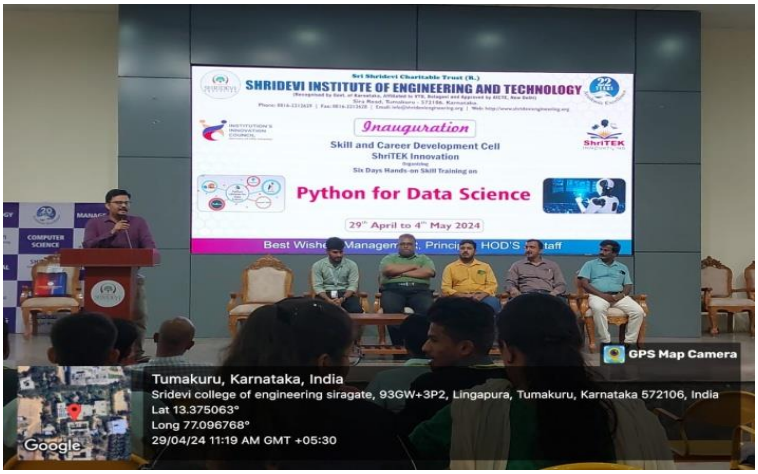
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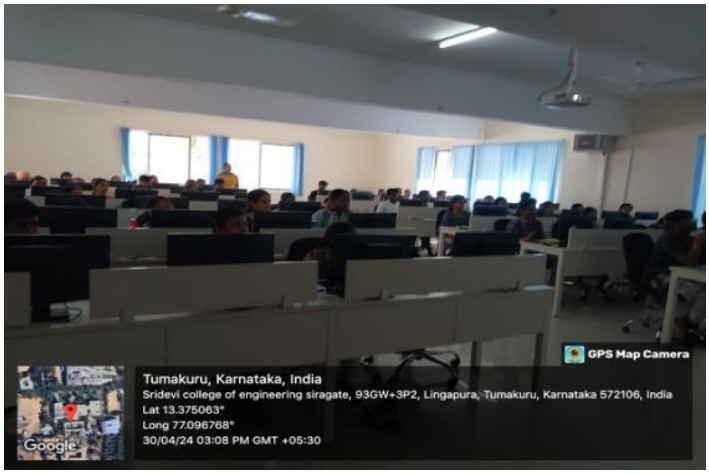
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