

**SRI VENKATESWARA INTERNSHIP
PROGRAM FOR RESEARCH IN ACADEMICS
(SRI-VIPRA)**



Project Report of 2021: SVP-2151

“JOURNEY OF PI”



IQAC

**Sri Venkateswara
College University of
Delhi Dhaula Kuan
New Delhi -110021**

Name of Mentor : Dr. R K Budhraja

Name of Department : Mathematics

Designation : Associate Professor



List of students under the SRIVIPRA Project

S.No	Name of the student	Course	Photo
1	Dolly Goyal	B.Sc. Mathematics Honours – III Year	
2	Saumya Sharma	B.Sc. Mathematics Honours - III Year	
3	Harsh Sharma	B.Sc. Mathematics Honours - III Year	
4	Kumari Kusum	B.Sc. Mathematics Honours - III Year	

**SRI VENKATESWARA INTERNSHIP
PROGRAM FOR RESEARCH IN ACADEMICS
(SRI-VIPRA)**

Project Report of 2021: SVP-2136

“Analyzing COVID-19 Data Using Statistical Software R”



IQAC

**Sri Venkateswara College
University of Delhi
Dhaura Kuan
New Delhi -110021**

Name of Mentor: Dr. Rajni Arora

Name of Department : Department of Mathematics






Designation: Assistant Professor



SRI VIPRA PROJECT 2021

Title : Analyzing COVID-19 Data Using Statistical Software R

List of students under the SRIVIPRA Project

S.No.	Name of the Student	Course	Photo
1.	Disha Gupta	B.Sc (Hons) Mathematics Semester IV	
2.	Nishank Gupta	B.Sc (Hons) Mathematics Semester IV	
3.	Priyal Chopra	B.Sc (Hons) Mathematics Semester IV	
4.	Shakya Sinha 	B.Sc (Hons) Mathematics Semester IV	

Signature of Mentor

**SRI VENKATESWARA INTERNSHIP PROGRAM
FOR RESEARCH IN ACADEMICS
(SRI-VIPRA)**

Project Report of 2021: SVP-2134

**“Construction and Exploration of Certain Complex Valued
Functions Geometrically”**




IQAC




**Sri Venkateswara College
University of Delhi
Dhaura Kuan
New Delhi -110021**




SRIVIPRA PROJECT 2021

Title : Construction and Exploration of Certain Complex Valued Functions Geometrically

<p>Name: Dr. Nisha Bohra</p> <p>Name of Department: Mathematics</p> <p>Designation: Assistant Professor</p>	<p>Photo</p> 
--	---

List of students under the SRIVIPRA Project

S. No	Name of the student	Course	Photo
1	Anant Narayanan	B.Sc. (Hons.) Mathematics	
2	Imran Hussain	B.Sc. (Hons.) Mathematics	
3	Jaskaran Singh	B.Sc. (Hons.) Mathematics	

4	Jayati Sood	B.Sc. (Hons.) Mathematics	
5	Prassanna Nand Jha	B.Sc. (Hons.) Mathematics	
6	Vidhi Yadav	B.Sc. (Hons.) Mathematics	

Nishe

Signature of Mentor

**SRI VENKATESWARA INTERNSHIP PROGRAM FOR RESEARCH IN
ACADEMICS
(SRI-VIPRA)**

Project Report of 2021: SVP-2137

**“High Order Discretization for the Helmholtz
Equation”**



**IQAC
Sri Venkateswara College
University of Delhi Dhaura
Kuan
New Delhi - 110 021**










SRIVIPRA PROJECT 2021

Title: High Order Discretization for the Helmholtz Equation.

Name of Mentor: Dr. Neelesh Kumar
Name of Department: Mathematics
Designation: Assistant Professor



List of students under the SRIVIPRA Project

S. No.	Name of the student	Course	Photo
1	Ashish Prakash	B.Sc (H) Mathematics, Sem-II	
2	Rishabh Banerjee	B.Sc (H) Mathematics, Sem-II	
3	Rishabh Jakhmola	B.Sc (H) Mathematics, Sem-II	
4	Soumya Jain	B.Sc (H) Mathematics, Sem-II	
5	Siddhi Agarwal	B.Sc (H) Mathematics, Sem-II	
6	Ananya Kaushik	B.Sc (H) Mathematics, Sem-II	
7	Harsh Vardhan Kukreti	B.Sc (H) Mathematics, Sem-II	
8	Akanksha Singh	B.Sc (H) Mathematics, Sem-II	
9	Prerna Tuteja	B.Sc (H) Mathematics, Sem-II	

Nilesh Kumar

Signature of Mentor

**SRI VENKATESWARA INTERNSHIP
PROGRAM FOR RESEARCH IN ACADEMY
(SRI-VIPRA)**

Project Report -2021


“Role of Mathematics in Artificial Intelligence”






**Sri Venkateswara
College University of
Delhi Dhaula Kuan
New Delhi -110021**



SRI-VIPRA PROJECT 2021



Title: Role Of Mathematics in Artificial Intelligence

Name of Mentor: Dr. Garima V. Arora Name of Department: Mathematics Designation: Assistant Professor	
---	---

List of students under the SRIVIPRA Project

S.No	Name of the student	Course	Photo
1	Ramnaresh Dara	B.Sc. (Hons.) Mathematics	
2	Anjali Kumari	B.Sc. (Hons.) Mathematics	
3	Kashish	B.Sc. (Hons.) Mathematics	

4	Surabhi Rawat	B.Sc (Hons) Mathematics	
5	Vivek Kumar Mahto	B.Sc. (Hons.) Mathematics	
6	Dishant Kaushik	B.Sc (Hons) Mathematics	
7	Jahnvi Agarwal	B.Sc. (Hons.) Mathematics	
8	Palak Chaudhary	B.Sc. (Hons.) Mathematics	

9	Neer Kumar	B.Sc (Hons) Mathematics	
10	Pranavi Kasireddy	B.Sc. (Hons.) Mathematics	

**Signature of Coordinator
Mentor SRIVIPRA 2020**


Signature of

**SRI VENKATESWARA INTERNSHIP PROGRAM FOR
RESEARCH IN ACADEMICS
(SRI-VIPRA 2021)**

**PROJECT REPORT - 2021 “ALGORITHMS AND
THEIR COMPLEXITY”**








**Sri Venkateswara College University of
Delhi
Dhaura Kuan New Delhi -110021**

TITLE: "ALGORITHMS AND THEIR COMPLEXITY"

<p>Name of Mentor: Dr. Department: Math Designation: Associate</p>		
--	---	--

LIST OF STUDENTS UNDER THE SRI VIPRA PROJECT-2021

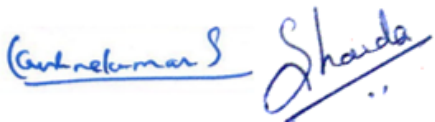
S.NO.	NAME	COURSE	YEAR	PHOTO
1	Honey Jain	B.Sc.(H) Physics	2 nd year	
2	Pratyush Ranjan Behera	B.Sc.(H) Mathematics	3 rd year	
3	Rishabh	B.Sc.(H) Mathematics	2 nd year	
4	Saurav Tanwar	B.Sc.(H) Mathematics	3 rd year	
5	Vidhi Chauhan	B.Sc.(H) Mathematics	3 rd year	

CERTIFICATE

This is to certify that the aforementioned students from Sri Venkateswara College have participated in the summer research internship project entitled **Algorithms and their Complexity**. The participants have carried out the research project work under my guidance and supervision from July 5, 2021 to August 25, 2021. The work carried out is original and carried out in an online mode.



Mentor



Coordinators



Principal

ACKNOWLEDGEMENT

We would like to express our sincere thanks to Dr. Deepti Jain, for her valuable guidance and support in completing our research internship and project report.

We would also like to express our gratitude towards our principal Prof. C Sheela Reddy for giving us the great opportunity of being part of SRI VIPRA. Without their support and suggestions, this project would not have been completed.

**SRI VENKATESWARA INTERNSHIP PROGRAM
FOR RESEARCH IN ACADEMICS
(SRI-VIPRA)**

Project Report of 2021: SVP-2132

“Data Science - Deep Learning & Neural Networks”




IQAC

Sri Venkateswara College

University of Delhi

Dhaura Kuan






New Delhi -110021




Name of Mentor: Mr. Anirban Chatterjee Name of Department: Mathematics Designation: Assistant Professor	
--	---

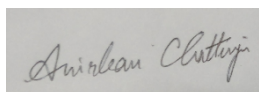
SRI-VIPRA PROJECT 2021

Title: Data Science - Neural Networks & Deep learning

List of students under SRIVIPRA PROJECT: -

S.No	Name of the student	Course	Photo
1.	Sejal Arora (Roll Number – 1719132)	B.Sc. (Honours) Mathematics (Semester – 4)	
2.	Tanishq Handa (Roll Number- 1918501)	B.Sc. (Honours) Statistics (Semester- 6)	
3.	Ankita (Roll Number – 1719161)	B.Sc. (Honours) Mathematics (Semester – 4)	
4.	Harjeet Singh Khera (Roll Number – 1918006)	B.Sc. (Honours) Statistics (Semester- 6)	
5.	Mansi Garg (Roll Number – 1718115)	B.Sc. (Hons) Mathematics (Semester – 6)	

6.	Naman Kumar Jain (Roll Number- 1719098)	B.Sc. (Honours) Mathematics (Semester – 4)	
7.	Rita Dasuni (Roll Number- 1719167)	B.Sc. (Honours) Mathematics (Semester – 4)	
8.	Shibani Maharana (Roll Number- 1719029)	B.Sc. (Honours) Mathematics (Semester – 4)	



Signature of Mentor

FOR RESEARCH IN ACADEMICS (SRI-VIPRA)

Project Report–2021

”The Application of Differential Equations in Biology”



Sri Venkateswara College
University of Delhi Dhaula
Kuan
New Delhi–110021

SRIVIPRA PROJECT 2021

Title : The Application of Differential Equations in Biology

- Name of Mentor: Amit Kumar and Sudhakar Yadav
- Name of Department: Mathematics
- Designation: Assistant Professor



List of students under the SRIVIPRA Project

S.No	Name of the student	Course	Photo
1	Mr. Aryan Kumar Prasad	B.Sc(H) Maths Semester: III	
2	Ms. Neha Gautam	B.Sc(H) Maths Semester: III	
3	Mr. Fardeen	B.Sc(H) Chem Semester:III	
4	Ms. Priyanka	B.Sc(H) Maths Semester: III	

Signature of Coordinator SRIVIPRA
2021

Signature of Mentor