



Anekant Education Society's  
**Tuljaram Chaturchand College of Arts, Science, and Commerce, Baramati**  
(Autonomous) 413102  
Affiliated to Savitribai Phule Pune University, Pune

A Project Report on  
“ **Skill-Based Job Recommendation System**  
**Using Machine Learning techniques** ”

Submitted to  
**Department of Statistics**  
**Tuljaram Chaturchand College**  
**of Arts, Science and Commerce, Baramati**

Under the guidance of  
**Miss. Ankita G. Deshmukh**

**2022-2023**

By

- 1) Miss. Nimbalkar Dnyanada Vijaykumar (17081)
- 2) Mr. Pandhare Rushikesh Sudhakar (17042)
- 3) Miss. Kshirsagar Rutuja Santosh (17072)



Department of Statistics

## CERTIFICATE


This is to certify that Miss. Nimbalkar Dnyanada Vijaykumar, Mr. Pandhare Rushikesh Sudhakar & Miss. Kshirsagar Rutuja Santosh are regular students of the Department of Statistics.

A project on "Skill-Based Job Recommendation System Using Machine Learning techniques" is submitted in partial fulfillment of the program in M.Sc.-II to the Department of Statistics, Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati.


This project has been conducted under my supervision and guidance.

Place: Baramati

Date:

  
Prof. Deshmukh A.G.  
Project Guide

  
25/4/23  
EXAMINER

  
Prof. Dr. Jagtap A. S.  
(Head Department of Statistics)



**Anekant Education Society's**

**Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati**

**413102**

**A Project report on**

**“A COMPUTATIONAL ANALYSIS OF FOREIGN EXCHANGE RATES USING  
STATISTICAL TECHNIQUES”**

**Submitted to**

**DEPARTMENT OF STATISTICS**

**Tuljaram Chaturchand College  
of Arts, Science and Commerce, Baramati**

**Under the guidance of**

**Miss. Nilambari Jagtap**

**2022-23**

**By**

**Miss Korade Rutuja Sukumar (17030)**

**Miss Mahajan Sakshi Sunil (17069)**

**Miss Nigade Sakshi Pravin (17084)**





## Department of Statistics

# CERTIFICATE

This is to certify that, Miss. Korade Rutuja Sukumar, Miss. Mahajan Sakshi Sunil and Miss. Nigade Sakshi Pravin are regular students of Department of Statistics.

A project on “A COMPUTATIONAL ANALYSIS OF FOREIGN EXCHANGE RATES USING STATISTICAL TECHNIQUES” is submitted in the partial fulfilment of the program in M.Sc.-II to the Department of Statistics, Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati.

This project has been conducted under my supervision and guidance.

Place: Baramati

Date:

  
Miss. N. A. Jagtap

Project Guide

  
25/4/23  
EXAMINER

  
Prof Dr. Jagtap A

(Head of Department of Statistics)

**"ANEKANT EDUCATION SOCIETY'S"**  
**TULJARAM CHATURCHAND COLLEGE OF ARTS,  
SCIENCE & COMMERCE, BARAMATI-413102**

(Autonomous)

**Department of Statistics**



A PROJECT REPORT ON

**"STATISTICAL ANALYSIS ON HEART ATTACK USING  
MACHINE LEARNING TECHNIQUES"**

**SUBMITTED TO**

**DEPARTMENT OF STATISTICS**

**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND  
COMMERECE, BARAMATI-413102**

**By**

**Miss. Shah Divya Smitesh (17073)**

**Miss. Doshi Astha Prashant (17078)**

**Miss. Thombare Pratibha Ramesh (17080)**

**UNDER THE GUIDENCE OF**

**Dr. Vaishali V. Patil**

**M.Sc. II (Academic year 2022-2023)**



“ANEKANT EDUCATION SOCIETY'S”

**TULJARAM CHATURCHAND COLLEGE OF ARTS,  
SCIENCE & COMMERCE, BARAMATI-413102**

(Autonomous)



**CERTIFICATE**

This is to certify that **Miss. Shah Divya Smitesh, Miss. Doshi Astha Prashant, Miss. Thombare Pratibha Ramesh**, regular students of class M.Sc.-II (Statistics) has completed project on “**Statistical Analysis on Heart Attack using Machine Learning techniques**” in the partial fulfillment of the program in M.Sc. II as per the syllabus laid by Savitribai Phule Pune University, during the academic year 2022-2023.

  
Dr. Vaishali V. Patil

**PROJECT  
GUIDE**

  
28/4/23  
**EXTERNAL  
EXAMINER**

  
Dr. Jagtap A.S.

**HEAD OF  
DEPARTMENT**

**PLACE: BARAMATI**

**DATE:**

**“ANEKANT EDUCATION SOCIETY’S”**  
**TULJARAM CHATURCHAND COLLEGE, OF ARTS, SCIENCE & COMMERCE,**  
**BARAMATI (413102)**

**(Autonomous)**

**Department of statistics**



**A PROJECT REPORT ON**

**“Statistical Analysis of Prenatal Care Using Machine Learning Techniques”**

**A PROJECT REPORT SUBMITTED TO**  
**DEPARTMENT OF STATISTICS,**  
**UNDER THE GUIDANCE OF**

**Ms. Priti M. Mohite**

**BY**

**Miss. Ranware Sanskruti Rambhau (17037)**

**Miss. Shedbale Mokshada Dhanpal (17071)**

**Miss. Patil Shreya Suresh (17075)**

**M.Sc. II (Academic Year 2022-2023)**

Department of statistics

Tuljaram Chaturchand College, Baramati.



**CERTIFICATE**

This is to certify that,

1. Miss Ranware Sanskruti Rambhau
2. Miss. Shedbale Mokshada Dhanpal
3. Miss. Patil Shreya Suresh

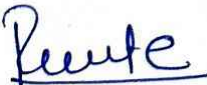
of M.Sc. Part- II(Statistics) has satisfactorily completed project on,

**“Statistical Analysis of Prenatal Care Using Machine Learning Techniques”**


Under the guidance of Ms. Priti M. Mohite. and have submitted this project report as part of course Statistics, for the degree of “Master of Science (Statistics)” from the Savitribai Phule Pune University of Pune, in the academic Year 2022-2023.

Date:

Place: Baramati (Pune)

  
Ms. Priti M. Mohite  
Project guide

  
Examiner

  
Prof. Dr. Avinash S. Jagtap  
Head of Department



**“ANEKANT EDUCATION SOCIETY”**  
**TULJARAM CHATURCHAND COLLEGE OF ARTS,**  
**SCIENCE & COMMERCE, BARAMATI-413102**  
(Autonomous)



A PROJECT REPORT ON

**“Predictive and prescriptive Statistical Model for  
Inventory Management In Health care”**

**SUBMITTED TO**  
**DEPARTMENT OF STATISTICS**  
**SAVITRIBAI PHULE PUNE UNIVERSITY**

**By**

Mr. Kshirsagar Tushar Deepak (17029)

Mr. Gujar Hrishikesh Ankush (17027)

Mr. Bhoite Nikhil Suryakant (17028)

**UNDER THE GUIDANCE OF**

**Miss. N.A.Jagtap**

2022-2023

“ANEKANT EDUCATION SOCIETY”

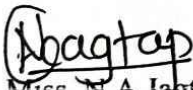
**TULJARAM CHATURCHAND COLLEGE OF ARTS,  
SCIENCE & COMMERCE, BARAMATI-413102**

(Autonomous)




**CERTIFICATE**

This is to certify that **Mr. Gujar Hrishikesh Ankush, Mr. Bhoite Nikhil Suryakant, Mr. Kshirsagar Tushar Deepak** regular students of class M.Sc.-II (Statistics) has completed project on “**Predictive and Prescriptive Statistical Model for Inventory Management in Health care**” in the partial fulfillment of the program in M.Sc. II as per the syllabus laid by Savitribai Phule Pune University, during the academic year 2022-2023.

  
Miss. N.A. Jagtap

**PROJECT  
GUIDE**

  
25/4/23  
**EXTERNAL  
EXAMINER**

  
Dr. Jagtap A.S.

**HEAD OF  
DEPARTMENT**

**PLACE: BARAMATI**

**DATE:**



Anekant Education Society's  
Tuljaram Chaturchand College of Arts, Science, and Commerce, Baramati  
(Autonomous)

413102

A Project report on

**“FLAT PRICE PREDICTION IN BARAMATI”**

Submitted to

Department of Statistics  
Tuljaram Chaturchand College  
of Arts, Science and Commerce, Baramati

Under the guidance of

Dr. Neeta K. Dhane

Associate Professor  
2022-2023

By

Miss Jadhav Akanksha Ramesh (17021)

Mr Pawar Vishal Hanumant (17040)

Miss Jadhav Vaishnavi Suresh (17068)





**Department of Statistics**

## **CERTIFICATE**

This is to certify that Miss. Jadhav Akanksha Ramesh, Mr. Vishal Hanumant Pawar, Miss. Jadhav Vaishnavi Suresh is a regular student of the Department of Statistics.

A project entitled “**FLAT PRICE PREDICTION IN BARAMATI**” is submitted in partial fulfilment of the program M.Sc. Part II to the Department of Statistics, Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati. This is a record of Bonafede work carried out by them under my supervision and guidance.

**Place: Baramati**

Date:

**Dr. Neeta K. Dhane  
Associate Professor  
Project Guide**

**Examiner**

**Dr. Avinash S. Jagtap  
Professor & Head  
Department of Statistics**

“ANEKANT EDUCATION SOCIETY’S”  
TULJARAM CHATURCHAND COLLEGE,  
Arts, Science & Commerce, BARAMATI (413102)

(Autonomous)

Department of statistics



A PROJECT REPORT ON

**To Analyze The Fluctuations Of Currency Against Indian Rupee & Study The Factors  
Affecting It.**

A PROJECT REPORT SUBMITTED TO  
DEPARTMENT OF STATISTICS,

BY

1. Miss. Bandgar Dipti Dilip
2. Miss. Shah Aishwarya Arinjay
3. Miss. Deshmukhe Pournima Tukaram

UNDER THE GUIDANCE OF  
**Ms. Choudhar Shital B.**  
(2022-2023)

DEPARTMENT OF STATISTICS

TULJARAM CHATURCHAND COLLEGE, BARAMATI



**CERTIFICATE**

This is to certify that,

**Miss.Bandgar Dipti Dilip**  
**Miss.Shah Aishwarya Arinjay**  
**Miss.Deshmukhe Pournima Tukaram.**

the project report entitled "To Analyze the Fluctuations of Currency against INR & Study the Factors Affecting It." This is submitted by as a partial fulfilment for the award of degree in Bachelor of Science. This is record of Bonafide work carried out by them under guidance.

Place: Baramati (Pune)

Ms.Choudhar Shital B.  
Project guide

Examiner

Dr. A. S. Jagtap  
Head,  
Department of Statistics



**"ANEKANT EDUCATION SOCIETY'S"**

**TULJARAM CHATURCHAND COLLEGE BARAMATI**

**(AUTONOMOUS)**

**AFFILIATED TO SAVITRIBAI PHULE PUNE UNIVERSITY**



STUDENT RESEARCH PROJECT REPORT ON

***"Social Media as Marketing Tool : A Quantitative Study using  
Machine Learning Technique"***

SUBMITTED TO

DEPARTMENT OF STATISTICS THE FULFILMENT OF

M.SC. (STATISTICS)

BY

- |                                    |                |
|------------------------------------|----------------|
| 1. Miss. Salunkhe Ketki Ashok      | Roll No. 17022 |
| 2. Miss. Solankar Vaishnavi Ramesh | Roll No. 17023 |
| 3. Miss. Bondre Pratiksha Balaso   | Roll No. 17024 |

**UNDER THE GUIDENCE OF**

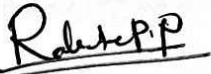
**Prof. Rakate. P.N.**

2022-2023




## CERTIFICATE

This is to certify that the project report entitled “**Social Media as Marketing Tool : A Quantitative Study using Machine Learning Techniques**” is being submitted by Miss. K.A. Salunkhe, Miss. V.R. Solankar and Miss. P.B. Bondre as a partial fulfillment for the award of the degree of the Master of Science (M.Sc.) as per the syllabus laid by the Savitribai Phule Pune University, Pune during the academic year 2022-2023 under my supervision and successfully submitted the report



Prof. P.N. Rakate

**PROJECT GUIDE**



**EXAMINER**



Prof. A. S. Jagtap

**HEAD OF DEPT**

**PLACE: BARAMATI**

**Date:**

Anekant Education Society's  
**Tuljaram Chaturchand College of Arts, Commerce and Science,  
Baramati. (Autonomous) Year-2022-2023**



**Submitted to**

**Department of Statistics**

**Academic Year :2022-2023**

**A Project Report On**

**“Students Sentiment Analysis in undergraduate and postgraduate programs”**

**Submitted By**

Miss. Kale Rupali Savalaram. (17026)

Miss. Yadav Ankita Shivaji. (17025)

Miss. Tate Prapti Hanumant. (17038)

M.Sc.-II (Statistics)

**Guided By**

Prof. Dr. V. C. Kakde.

Miss. N. A. Jagtap.


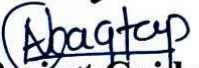


## ACKNOWLEDGEMENT



## CERTIFICATE

This is to certify that partial fulfillment of curriculum MSc-II Student **Miss. Kale Rupali Savalaram, Miss. Yadav Ankita Shivaji, Miss. Tate Prapti Hanumant** have successfully completed the project work in the statistics entitled **“Students Sentiment Analysis in undergraduate and postgraduate programs”** prescribed by Tuljaram Chaturchand college Baramati during academic year 2022-2023

  
  
**Project Guide**

Prof. Dr. V. C. Kakde.

Miss. N. A. Jagtap

  
**Examiner**

  
**Prof. Dr. Avinash Jagtap**

Head

Department of Statistics

**Place: Baramati.**

**Date:**



**A Project Report on**

**“A Statistical Analysis on Asthmatic Patients”**

**Submitted to,**

**Department of Statistics**

**Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati**

**By**

**Miss. Prajakta Dayanand Kamble(17076)**

**Miss. Mayuri Sunil Ghadage(17077)**

**Miss. Mayuri Dipak Godase(17082)**

**Under the guidance of**

**Prof. Shital B. Choudhar**

**2022-2023**



ANEKANT EDUCATION SOCIETY'S  
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND  
COMMERCE, BARAMATI  
DEPARTMENT OF STATISTICS

**CERTIFICATE**

This is to certify that,

Ms. Prajakta Dayanand Kamble

Ms. Mayuri sunil Ghadage

Ms. Mayuri Dipak Godase

have successfully completed their project on,

**“A Statistical Analysis on Asthmatic Patients”** is being submitted as partial fulfilment for the award of the degree of the Master of Science (Statistics) from the Tuljaram Chaturchand College, Baramati in the academic year 2022-23.

This is a record of bonafide work carried out by them under the guidance.

**Place: Baramati**

Date:

**Prof. Shital B. Choudhar**  
Assistant Professor  
Project guide

**Examiner**

**Dr. A.S. Jagtap**  
Head, Department of Statistics



ANEKANT EDUCATION SOCIETY'S  
**TULJARAM CHATURCHAND COLLEGE, BARAMATI**  
(Autonomous)  
AFFILIATED TO SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



**STUDENT RESEARCH PROJECT ON**  
**“ANALYSIS OF SELF-ESTEEM AND STUDY OF PERSONALITY**  
**TESTS USING STATISTICAL TECHNIQUE”**

SUBMITTED TO  
DEPARTMENT OF STATISTICS THE FULFILMENT OF  
M.Sc. (STATISTICS)

By

Miss. Raskar Shruti Anil	Roll No. 17079
Miss. Kalange Dipti Mahadev	Roll No. 17070
Miss.Chougule Sadhana Sandesh	Roll No. 17074

UNDER THE GUIDANCE OF

**Prof. Miss. Rakate P. N.**

**YEAR 2022-23**



## CERTIFICATE

This is to certify that they work incorporated in the project report entitled “**Analysis of Self-Esteem And Study Of Personality Tests Using Statistical Technique**” Submitted by **Miss.Raskar S. A., Miss.Kalange D. M., Miss.Chougule S. S.** for the award of the degree of master of science in Statistics by Department of Statistics Tuljaram Chaturchand college, Baramati was carried out by the candidate under the supervision of **Prof. Rakate.P.N** Department of Statistics, Tuljaram Chaturchand College ,Baramati during March2023.

**Prof. Miss Rakate.P. N.**  
Project Guide

**EXAMINER**

**Prof. A.S. Jagtap**  
Head,  
Department Of Statistics.

PLACE: BARAMATI

DATE :

**“ANEKANT EDUCATION SOCIETY”**

**TULJARAM CHATURCHAND COLLEGE,**

(Arts, Science & Commerce),  
BARAMATI (413102)  
(Autonomous)



A PROJECT REPORT ON

**“PREDICTION OF ANAEMIA AMONG WOMEN AT  
REPRODUCTIVE AGE”**

**SUBMITTED TO**

**DEPARTMENT OF STATISTICS**

**SAVITRIBAI PHULE PUNE UNIVERSITY**

By

Miss. Kangude Mayuri Prakash (17039)

Miss. Jadhav Nikita Shivdas (17067)

Miss. Nagare Bharati Dattatray (17035)

**UNDER THE GUIDENCE OF**

**Ms. Gaikwad P. S**

2022-2023



“ANEKANT EDUCATION SOCIETY”


**TULJARAM CHATURCHAND COLLEGE,**

(Arts, Science & Commerce),  
BARAMATI (413102)  
(Autonomous)



**CERTIFICATE**

This is to certify that Miss.Kangude Mayuri Prakash , Miss.Jadhav Nikita Shivdas, Miss. Nagare Bharati Dattatray, of class M.Sc.-II (Statistics) has completed project on “Prediction of Anaemia in Women Reproductive Age” as per syllabus laid by Savitribai Phule Pune University, during the academic year 2022-2023 under my supervision and submitted the Report.

  
Mrs. Gaikwad P. S

**PROJECT GUIDE**

**EXAMINER**

  
EXTERNAL

  
Dr. Jagtap A.S.

**HEAD OF**

**DEPARTMENT**

**PLACE: BARAMATI**

**DATE**



Anekant Education Society's  
Tuljaram Chaturchand College of Arts, Science, and Commerce,  
Baramati 413102

Department of Statistics

**A PROJECT REPORT**

**ON**

**“CARDIOVASCULAR DISEASE ANALYSIS”**

**A PROJECT REPORT SUBMITTED**

**By**

Ms. Dhame Puja Shivaji

Ms. Gawade Monali Balu

Ms. Komkar Vaishnavi Rahul

Roll No. 17031

Roll No.17032

Roll No.17033

**TO**

**DEPARTMENT OF STATISTICS**

**UNDER THE GUIDANCE OF**

**Mr. Swami. C. P.**

**2022-23**



Department of Statistics

## CERTIFICATE

This is to certify that, Miss. Dhame Puja Shivaji, Miss. Gawade Monali Balu and Miss. Komkar Vaishnavi Rahul are regular students of the Department of Statistics. A project on "**CARDIOVASCULAR DISEASE ANALYSIS**" Is submitted in partial fulfillment of the program in M.Sc. – II to the Department of Statistics, Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati.

This project has been conducted under my supervision and guidance.

Place: Baramati

Mr. Swami C. P.

Project Guide

EXAMINER

Prof. Dr. Jagtap A. S.

(Head of Department of Statistics)



**ANEKANT EDUCATION SOCIETY's**  
**TULJARAM CHATURCHAND COLLEGE OF ARTS,**  
**SCIENCE AND COMMERCE, BARAMATI**  
**(AUTONOMOUS)**



**A PROJECT REPORT**

**ON**

**“Analysis of effect of different fertilizers on Onion crop”**

**SUBMITTED TO**

**A PROJECT REPORT SUBMITTED FOR M.Sc.-II (STATISTICS) PROJECT**

**BY**

**Mr. Thorat Vivek Baban (17043)**

**Mr. Chakane Akash Abasaheb (17044)**

**Mr. Hake Sandip Nandu (17065)**

**UNDER THE GUIDENCE OF**

**Prof. Wadkar S.D.**

**2022-2023**

ANEKANT EDUCATION SOCIETY'S

**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND  
COMMERCE, BARAMATI**

**(AUTONOMOUS)**




Department of Statistics


## **CERTIFICATE**

This is to certify that the project report entitled “**Analysis of effect of different fertilizers on Onion crop**”.

This is being submitted by **Mr. Thorat V.B., Mr. Chakane A.A. and Mr. Hake S.N.** as a partial fulfilment for the award of the degree of the M.Sc.-II (Statistics). This is a record of bonafied work carried out by them under my supervision and guidance.

  
Prof. Wadkar S.D.  
**Project Guide**

  
Examiner

  
Dr. Jagtap A.S.  
**Head,**

**Department of Statistics**

Place: Baramati

Date:

“ANEKANT EDUCATION SOCIETY’S”  
**TULJARAM CHATURCHAND COLLEGE OF**  
**ARTS, SCIENCE AND COMMERCE,**  
**BARAMATI (AUTONOMOUS)**



**A PROJECT REPORT ON**  
**“ANALYSIS OF POLICE OFFICERS OCCUPATIONAL**  
**STRESS IN BARAMATI”**

**Submitted by**

**Ms. Khabiya Pooja Tarachand (17064)**

**Ms. Banda Kiran Ashok (17061)**

**Ms. Choudhar Payal Tukaram (17066)**

**Under the Guidance of**

**Ms. Kale K. C.**

**Department of Statistics**

**Tuljaram Chaturchand College of Arts, Science and Commerce,**

**Baramati, District-Pune**

**2022-2023**




“ANEKANT EDUCATION SOCIETY'S”

**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND  
COMMERCE, BARAMATI**




**CERTIFICATE**

This is to certify that **Ms. Pooja Khabiya, Ms. Banda Kiran, Ms. Choudhar Payal** of M.Sc. II (Statistics) has satisfactory completed project on “**Analysis of Police Officers Occupational Stress in Baramati**” as per the syllabus laid by the Savitribai Phule Pune University, Pune during the academic year 2022-23 under my supervision and successfully submitted the report.

  
Ms. Kale K. C.  
Project Guide

  
Examiner

  
Prof. A. S. Jagtap  
Head of Department of Statistics

**Place: Baramati**

**Date:**

**ANEKANT EDUCATION SOCIETY's**  
**TULJARAM CHATURCHAND COLLEGE OF ARTS,**  
**SCIENCE AND COMMERCE, BARAMATI**  
**(AUTONOMOUS)**



**A PROJECT REPORT ON**  
**"Statistical Modelling on Preference of work type"**

**SUBMITTED TO**  
**A PROJECT REPORT SUBMITTED FOR M.Sc.-II (STATISTICS) PROJECT**  
**BY**

**Miss. Bhutkar Yukta Yogiraj**

**Miss. Changan Dhanashri Tukaram**

**Mr. Pawar Karan Balasaheb**

**UNDER THE GUIDENCE OF**  
**Ms. Gaikwad P. S. & Ms. Deshmukh A. G.**

**Academic Year 2022-2023**

**ANEKANT EDUCATION SOCIETY's**  
**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE**  
**AND COMMERCE, BARAMATI**  
**(AUTONOMOUS)**



**Department of Statistics**

**CERTIFICATE**

This is to certify that the project report entitled “**Statistical Modelling on Preference of work type**”

This is being submitted by **Miss. Bhutkar Y.Y., Miss. Changan D.T. and Mr. Pawar K.B.** as a partial fulfilment for the award of the degree of the M.Sc.-II (Statistics). This is a record of bonafied work carried out by them under my supervision and guidance.

Ms. Gaikwad Pooja

Ms. Deshmukh Ankita

**Project Guide**

25/9/23  
**Examiner**

Dr. Jagtap A.S.

**Head,**

**Department of Statistics**

Place: Baramati

Date: