

REAL TIME AI POWERED IMPLEMENTATION PROJECTS

JDNET TECHNOLOGIES CUDDALORE



9159395080



6369929654

FINAL YEAR PROJECTS

MATHS

- ❖ PURE MATHEMATICS
- ❖ APPLIED MATHEMATICS,
- ❖ STATISTICS AND PROBABILITY,
- ❖ MATHEMATICAL MODELLING AND REAL-LIFE APPLICATIONS,
- ❖ MATHEMATICS EDUCATION AND HISTORY OF MATHEMATICS.

100 %
PLACEMENT
ASSISTANCE

NO:31, SUBBURAYA CHETTY STREET, THIRUPAPULIYUR, CUDDALORE-2
(OPP DARLING ELECTRONICS)

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REAL TIME AI POWERED IMPLEMENTATION PROJECTS

PURE MATHEMATICS

1. A Study on Prime Number Patterns and Cryptographic Applications
2. The Role of Modular Arithmetic in Data Security
3. A Study on the Concept of Infinity in Mathematics
4. The Relationship Between Fibonacci Sequence and the Golden Ratio
5. A Study on Properties of Complex Numbers
6. An Analysis of Matrix Theory in Linear Algebra
7. Exploring Symmetry Through Group Theory
8. The Role of Determinants in Solving Linear Equations
9. A Study on Eigenvalues and Eigenvectors in Linear Systems
10. Mathematical Patterns in Nature and Architecture
11. An Investigation of Polynomial Functions and Their Roots
12. A Study on Conic Sections and Their Geometrical Importance
13. Trigonometric Functions and Their Applications in Real Life
14. The Relationship Between Algebra and Geometry
15. A Study on the Binomial Theorem and Its Generalizations
16. Exploring Vector Spaces and Linear Transformations
17. A Study on Graph Theory and Its Pure Mathematical Foundations
18. An Analysis of Sequences and Series Convergence
19. The Application of Number Theory in Coding Systems
20. A Study on Proofs and Logic in Pure Mathematics
21. The Role of Set Theory in Abstract Mathematics
22. The Concept of Limits and Continuity in Real Analysis
23. A Study on Differentiation and Its Geometric Meaning
24. The Relationship Between Integration and Area Calculation

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25. Exploring Functions and Their Graphical Transformations
26. Application of Coordinate Geometry in Problem Solving
27. A Study on the Concept of Symmetry in Mathematics
28. Understanding the Mean Value Theorem in Calculus
29. Mathematical Proofs Using Induction and Contradiction
30. A Study on Vector Calculus and Its Mathematical Properties
31. The Role of Topology in Modern Mathematics
32. An Investigation into Non-Euclidean Geometry
33. Exploring Logic and Propositional Calculus
34. A Study on Geometric Transformations and Symmetry
35. The Role of Analytical Geometry in Engineering
36. A Study on the Algebra of Matrices
37. A Study on Trigonometric Identities and Their Geometric Proofs
38. The Concept of Infinite Series and Convergence Tests
39. An Overview of Abstract Algebra Structures
40. The Role of Complex Numbers in Engineering Mathematics
41. A Study on Pascal's Triangle and Its Mathematical Patterns
42. Application of Algebra in Financial Modelling
43. A Study on the Fundamental Theorem of Arithmetic
44. A Comparative Study of Rational and Irrational Numbers
45. The Role of Geometry in Computer Graphics
46. Understanding the Concept of Mathematical Induction
47. A Study on Roots of Polynomials and Their Properties
48. Exploring the Role of Symmetry in Fractals
49. The Relationship Between Geometry and Art

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APPLIED MATHEMATICS

1. A Study on Differential Equations in Engineering Applications
2. The Role of Calculus in Motion and Velocity Analysis
3. Application of Linear Programming in Resource Allocation
4. A Study on Mathematical Modelling in Mechanics
5. The Role of Graph Theory in Transportation Systems
6. A Study on Fluid Flow and Bernoulli's Theorem
7. The Application of Vector Calculus in Force Analysis
8. A Study on Harmonic Motion and Wave Theory
9. Optimization of Production Using Operations Research
10. Mathematical Modelling of Traffic Flow Systems
11. A Study on Projectile Motion Using Differential Equations
12. Applications of Game Theory in Economics
13. The Role of Probability Models in Supply Chain Analysis
14. A Study on the Stability of Physical Systems
15. Mathematical Analysis of Rotational Motion
16. A Study on Numerical Methods in Applied Mathematics
17. Optimization Techniques Using Linear Programming
18. Mathematical Modelling in Environmental Engineering
19. A Study on Queueing Theory and Its Real-Life Uses
20. The Application of Graph Theory in Network Optimization
21. The Role of Calculus in Designing Roller Coasters
22. A Study on Mathematical Methods in Electrical Circuits
23. The Use of Differential Equations in Chemical Reactions
24. A Study on Probability in Risk Assessment

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25. Application of Mathematics in Traffic Signal Timing
26. The Role of Optimization in Business and Industry
27. A Study on Elasticity and Stress Analysis
28. The Application of Vector Fields in Physics
29. A Study on the Dynamics of a Simple Pendulum
30. Mathematical Models in Aerodynamics
31. The Role of Operations Research in Inventory Management
32. A Study on the Motion of Celestial Bodies
33. Optimization of Energy Systems Using Mathematical Methods
34. Application of Laplace Transform in Electrical Engineering
35. Mathematical Modelling of Epidemic Growth
36. A Study on the Mechanics of Fluids
37. The Role of Mathematics in Robotics Path Planning
38. A Study on the Heat Transfer Equation
39. Application of Mathematics in Structural Engineering
40. The Role of Lagrange's Equations in Classical Mechanics
41. A Study on Differential Calculus in Curve Tracing
42. Mathematical Analysis of Population Dynamics
43. Application of Game Theory in Business Decision-Making
44. A Study on Nonlinear Dynamics and Chaos Theory
45. The Role of Mathematics in Aerodynamic Design
46. Optimization Problems in Real-World Systems
47. The Application of Probability in Quality Control
48. A Study on Transportation and Assignment Problems
49. Mathematical Analysis in Signal Processing

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STATISTICS AND PROBABILITY

1. A Study on Measures of Central Tendency in Real Data
2. Application of Statistics in Marketing Research
3. A Study on Sampling Techniques and Their Accuracy
4. Application of Probability in Weather Forecasting
5. Statistical Methods in Quality Control
6. A Study on Regression and Correlation Analysis
7. The Use of Probability in Financial Risk Prediction
8. Statistical Analysis of Student Performance Data
9. The Role of Standard Deviation in Business Analysis
10. A Study on Chi-Square Tests in Research
11. Statistical Methods in Medical Data Interpretation
12. A Study on Probability Models in Traffic Flow
13. The Use of ANOVA in Educational Research
14. Application of Probability in Game Outcomes
15. A Study on Data Visualization Techniques
16. The Role of Statistics in Stock Market Analysis
17. Probability Distributions and Their Real-Life Uses
18. A Study on Bayesian Methods in Data Analysis
19. Statistical Inference in Population Studies
20. The Use of Statistics in Sports Performance Analysis
21. A Study on Sampling Error and Bias in Surveys
22. Statistical Analysis in Election Poll Predictions
23. Probability in Industrial Quality Control
24. A Study on Multivariate Analysis Techniques

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25. Statistical Study of Crime Rates Using Public Data
26. Probability Applications in Genetics and Biology
27. The Role of Statistics in Supply Chain Management
28. A Study on Random Variables and Probability Density
29. Statistical Modelling of Climate Change Data
30. A Study on Big Data and Predictive Statistics
31. Probability and Decision-Making Under Uncertainty
32. Statistical Study on Customer Satisfaction Levels
33. Application of Statistics in Education Performance
34. A Study on Poisson Distribution in Real-Time Systems
35. Statistical Modelling of Birth and Death Rates
36. The Role of Probability in Artificial Intelligence
37. A Study on Variance and Covariance Relationships
38. Statistical Forecasting of Agricultural Yield
39. Application of Hypothesis Testing in Research Studies
40. The Role of Statistics in Business Planning
41. Statistical Analysis of Air Pollution Data
42. Probability in Queueing Systems
43. Statistical Comparison Between Urban and Rural Growth
44. A Study on Correlation in Market Price Trends
45. Application of Non-Parametric Tests in Data Analysis
46. The Role of Probability in Decision-Making
47. A Study on Probability Distributions in Machine Learning
48. Statistical Models in Economic Forecasting
49. Statistical Data Interpretation Using R or Excel

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MATHEMATICAL MODELLING AND **REAL-LIFE APPLICATIONS**

1. Mathematical Modelling of Population Growth
2. A Study on Mathematical Models in Traffic Flow Control
3. Modelling the Spread of Infectious Diseases Using SIR Models
4. Mathematical Modelling in Environmental Pollution Control
5. Application of Linear Programming in Business Optimization
6. Modelling Climate Change and Global Warming Patterns
7. Mathematical Models in Agriculture and Crop Yield Prediction
8. Modelling the Motion of a Simple Pendulum
9. Mathematical Models in Banking and Loan Prediction
10. Application of Mathematics in Urban Planning
11. A Study on Mathematical Models for Epidemic Prediction
12. Mathematical Modelling of Water Resource Management
13. Modelling Supply Chain Systems Using Optimization
14. Mathematical Models in Economic Forecasting
15. A Study on Mathematical Models in Waste Management
16. Modelling the Relationship Between Fuel Price and Consumption
17. Mathematical Models for Predicting Earthquake Magnitude
18. Application of Game Theory in Competitive Markets
19. Mathematical Models in Transportation Scheduling
20. A Study on Mathematical Modelling in Road Safety
21. Application of Differential Equations in Biological Systems
22. Modelling the Spread of Social Media Information
23. Mathematical Models for Energy Efficiency in Buildings

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24. Application of Mathematical Optimization in Agriculture
25. Modelling the Flow of Fluids in Pipes
26. A Study on Mathematical Models in Crop Irrigation
27. Modelling Urban Traffic Congestion Using Simulation
28. Mathematical Models in Forest Fire Prediction
29. A Study on Mathematical Models in Voting Systems
30. Modelling COVID-19 Transmission and Control Measures
31. Mathematical Models for Inflation and GDP Prediction
32. Modelling the Impact of Population on Employment
33. Mathematical Models in Earthquake Early Warning Systems
34. Application of Probability in Disease Modelling
35. Modelling Customer Demand in Retail Markets
36. Mathematical Modelling of Drug Dosage and Effect
37. Application of Logistic Models in Marketing Strategies
38. Modelling of Rainfall and Flood Risk Assessment
39. A Study on Mathematical Models for Renewable Energy Production
40. Application of Game Theory in Political Elections
41. Mathematical Models for Predicting Power Consumption
42. Modelling of Supply and Demand in Economics
43. Application of Mathematical Modelling in Transport Optimization
44. A Study on Resource Allocation Models
45. Modelling Population Migration and Urbanization
46. Mathematical Modelling of Energy Distribution Networks
47. Application of Statistical Modelling in Education
48. Modelling Climate Variability Using Probability Analysis

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MATHEMATICS EDUCATION AND HISTORY **OF MATHEMATICS**

1. A Study on the Role of Mathematics in Everyday Life
2. Teaching Mathematics Through Real-Life Applications
3. The Use of Technology in Mathematics Education
4. A Study on the Effectiveness of Visual Learning in Mathematics
5. The Role of Problem-Based Learning in Mathematics Education
6. A Study on Students' Attitude Toward Mathematics
7. The Importance of Teacher Preparation in Mathematics Instruction
8. A Study on Mathematics Anxiety Among College Students
9. Application of ICT Tools in Mathematics Teaching
10. The Role of Games and Puzzles in Mathematics Learning
11. A Study on the Use of Digital Tools in Online Mathematics Classes
12. Gender Differences in Mathematics Performance
13. The Life and Contributions of Srinivasa Ramanujan
14. The Development of Calculus from Newton to Modern Times
15. A Study on Mathematics Curriculum Development
16. The Role of History in Teaching Mathematical Concepts
17. Ancient Indian Contributions to Mathematics
18. The Role of Assessment in Mathematics Learning
19. A Study on Effective Teaching Strategies in Mathematics
20. Application of Bloom's Taxonomy in Mathematics Education
21. A Study on Conceptual Understanding Versus Rote Learning
22. The History of Algebra and Its Global Impact
23. The Life and Works of Pythagoras – A Historical Study

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24. The Role of Geometry in Early Mathematical Thought
25. The Importance of Logic and Proof in Mathematics Education
26. Ancient Egyptian and Greek Contributions to Mathematics
27. Teaching Mathematics Through Collaborative Learning
28. A Study on the Role of Problem-Solving in Student Success
29. The Role of Visual Aids in Teaching Geometry
30. The History of Number Systems Around the World
31. A Study on the Development of Trigonometry
32. The Influence of Mathematics on Other Sciences
33. The Role of Motivation in Mathematics Learning
34. A Study on Innovative Approaches in Mathematics Teaching
35. The History and Significance of Zero in Mathematics
36. Integration of Artificial Intelligence in Mathematics Education
37. The Role of E-Learning in Mathematics Instruction
38. Teaching Mathematics Through Real-Life Problem Solving
39. Ancient Chinese Contributions to Mathematical Theory
40. The Role of Teachers in Enhancing Analytical Thinking
41. A Study on the Use of Software Tools in Math Education
42. The Development of Geometry from Euclid to Modern Times
43. The Role of Mathematics in Art and Architecture
44. A Study on Curriculum Reforms in Mathematics Education
45. The Role of Cultural Context in Mathematics Learning
46. Teaching Strategies for Students with Mathematics Difficulty
47. The Importance of Concept Mapping in Mathematics
48. History of Probability Theory and Its Evolution

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Connect With Us

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