Department of
Statistics, VNSGU

In Collaboration with
तर्कAI
EDTECH PVT LTD

TRADITION
KNOWLEDGE
INNOVATION
SOCIAL IMPACT

CERTIFICATE COURSE

AI-Driven Statistical Analytics

From Statistical Foundations to AI-Powered Business Intelligence

Learn · Analyze · Build · Solve



Statistics
Build a strong analytical foundation

Python
Hands-on programming skills

Machine Learning
Solve real-world problems

Power BI
Create impactful data stories

Real-World Applications
From data to decisions

Empowering Minds for a Data-Driven Tomorrow

4 Credits

90 Hours
(30 Theory + 60 Practical)

Blended Learning
(Theory + Practical)

Course Fee
₹ 6,400/-



Turn Data into Decisions

ACADEMIC EXCELLENCE
•
INDUSTRY RELEVANCE
•
REAL-WORLD IMPACT

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SOCIAL IMPACT

A Message for the Future

From the Vice-Chancellor's Desk



Dr. Kishorsinh N. Chavda
Vice-Chancellor
Veer Narmad South Gujarat University

"I feel elated to welcome all the young and dynamic aspirants into the temple of learning. It is a matter of great pleasure for me to bring innovative techno savvy cognition and inventions to face new challenges in the coming years. In the world of technology and digital edge, we wish to provide a sense of development, commitment and values in the field of education through new horizon and dynamism. We seek to give highly oriented dimension to education through the acceleration of new programs and innovative applications in the international arena as well as to move forward to make education dynamic by engaging all stakeholders with confidence to reach the desired goal with all efforts for research and developmental action. The aim is to endeavor for ICT-enabled education and integration of ethical values in life, to promote cultural and social impact, analytical skills, team spirit and leadership skills to the students to help them make path of their career easier as well as to face life's challenges. In contemporary competitive time of higher education we want to turn challenges into opportunities for future perspective. New experiences will shape creative ways of learning paradigms for e-learning with virtual e-connect environment. New learning outcomes will bring new hopes, aspiration, innovation, passion and positive mindset to frame colorful page in life full of knowledge and learning."

Dr. Kishorsinh N. Chavda
Vice-Chancellor
Veer Narmad South Gujarat University

EMPOWERING MINDS

BUILDING LEADERS

CREATING OPPORTUNITIES

FOR A BETTER SOCIETY

University Leadership — *Guiding Excellence, Inspiring Futures*



Dr. Rameshdan C. Gadhvi
Registrar
Veer Narmad South Gujarat University



Dr. Arti Jagdishbhai Rajyaguru
Head, Department of Statistics
Veer Narmad South Gujarat University



"Nurturing Knowledge for a Brighter Tomorrow"

Empowering Minds.
Building Leaders.
Creating Opportunities.

Education today for a brighter tomorrow

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Bridging Statistical Knowledge with Industry Practice

This certificate course is designed to connect classical statistical concepts with modern computational analytics, machine learning and business intelligence. Students learn through theory, hands-on laboratory work, case studies, mini-projects and an industry-oriented capstone to solve real-world problems.

Academia Meets Industry

Course Incharge (University)



Ms. Mansi Rathod
Course Incharge (TAP)
Department of Statistics
VNSGU

"Guiding learners towards a future-ready skill set."

Industry Leadership & Mentorship

(Contributing to the Learning Experience)



Mr. Sahil Rafaliya
CEO & Founder
TarkAI Edtech Pvt Ltd

M.Sc. Data Science (CDA) from IIIT Lucknow. Currently running TarkAI Edtech Pvt Ltd, Foritus Solutions (AI Solutions) and serves as Director at Carboventis Pvt Ltd (Climate Tech).

Data Science
AI Solutions
EdTech Innovation
Climate Tech



Ms. Kashish Nagar
President & Co-founder
TarkAI Edtech Pvt Ltd

M.Sc. AI & ML from IIIT Lucknow. Currently President at Foritus Solutions and actively involved in technology, AI/ML education and industry initiatives.

Artificial Intelligence
Machine Learning
EdTech Leadership
Industry Collaboration

"Real Skills Real Projects Real Impact"

LEARN from Academia

BUILD with Industry

GROW your Future

From Knowledge to Career

Transform statistical concepts into practical skills through real-world projects, industry mentorship, and applied learning.

Empowering Minds for a Data-Driven Tomorrow





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Course Highlights & Syllabus (5 Units)

01 Foundations of Quantitative Analysis
Statistics, Probability, Python Programming, NumPy, Jupyter

02 Data Analytics & Statistical Inference
Pandas, Data Cleaning, EDA, Visualization, Hypothesis Testing, ANOVA

03 Supervised Machine Learning
Linear Regression, Logistic Regression, Decision Trees, Scikit-Learn

04 Unsupervised Learning & Pattern Discovery
K-Means Clustering, PCA, Feature Scaling

05 Business Intelligence & Industrial Capstone
Power BI, DAX, Dashboards, Responsible AI, End-to-End Project

What You Will Be Able to Do

- Analyze real-world datasets using statistics and Python
- Build data preprocessing and EDA pipelines
- Perform statistical hypothesis testing
- Build and evaluate machine learning models
- Apply clustering and dimensionality reduction
- Create interactive Power BI dashboards
- Evaluate model performance using statistical metrics
- Convert raw data into actionable insights
- Work on industry-oriented capstone projects
- Present findings to technical and non-technical audiences



Course Details at a Glance

4	90	30 Hours	60 Hours	Blended Learning	₹ 6,400/-
Credits	Hours	Theory	Practical	(Theory + Practical)	Course Fee

Eligibility

Any student who has studied or is currently studying Statistics, Mathematics, Computer Applications, Data Science, Data Analytics, Computer Science, or Engineering.

Don't Just Learn Data.
Turn Data into Decisions.

Register Now
& Be a Part of the Future

Organized by
Department of Statistics,
Veer Narmad South Gujarat University

In Collaboration with
TarkAI Edtech Pvt. Ltd., Surat

Knowledge for a Better Tommorow

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Together for a Data-Driven Tomorrow

"From knowledge to impactful solutions."

Academic Excellence | Industry Relevance | Real-World Impact

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Veer Narmad South Gujarat University

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Course Incharge

Ms. Mansi Rathod
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Leadership Team

Mr. Sahil Rafaliya
CEO & Founder

Ms. Kashish Nagar
President & Co-founder



VEER NARMAD
SOUTH GUJARAT UNIVERSITY
https://vnsgu.ac.in

LEARNING
PARTNERSHIPS
REAL-WORLD IMPACT

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PEOPLE
IDEAS
TECHNOLOGY
IMPACT

KNOWLEDGE | COLLABORATION | A BRIGHTER TOMORROW