



TS BRIDGE

Bridging Gaps & Building Dreams

Job-Ready Skills | Live Projects | Assured Placement

Empowering Careers with India's Most Reliable Job Guarantee Program

At **TS Bridge**, we don't just offer courses-we offer careers. We specialize in bridging the gap between academic learning and industry demands through hands-on training, real-time projects, and a written **1-Year Job Guarantee Agreement**.

We don't just train. We mentor, guide, support, and place..

CONTACT US:



<https://tsbridgeedu.in/>



+91 93813 91721 / +91 7989265436



103, Ratna complex, Image Hospitals Lane,
Ameerpet, Hyderabad, Telangana

Both Online & Offline Training available



Everything is under
written agreement
and Bond.



TS BRIDGE

Bridging Gaps & Building Dreams

Why to Choose Us ?

Empowering You from Learning to Earning

We go beyond teaching—We Mentor, Prepare and Place.

- ◆ Daily Skill Assessments
- ◆ Live Project-Based Learning
- ◆ 1:1 Doubt Clarification
- ◆ Company-Specific Mock Tests & Interviews
- ◆ Workshops, Hackathons & Networking Events
- ◆ 100% Job Placement Guarantee Within 12 Months
- ◆ Corporate Partnerships for Direct Hiring
- ◆ Flexible Batch Timings (Weekdays & Weekends)
- ◆ Soft Skills, Resume Building & LinkedIn Branding

Choose Your Path – IT, Non-IT, or Pharma – We've Got You Covered

<https://tsbridgeedu.in/>

Both Online & Offline Training available



**Everything is under
written agreement
and Bond.**



TS BRIDGE

Bridging Gaps & Building Dreams

Our Model's for Your Career Goals

1. Training + Internship + Job Guarantee:

Complete Career Program with Written Agreement. This is our flagship model designed for freshers and job seekers. It includes expert training, real-time internship and a legally bound 1-year job guarantee agreement.

2. Training + Internship + Job Support

Skill-Building with Career Assistance & Designed for learners who want in-depth training and hands-on experience, with strong job support (without legal job guarantee).

3. Job Support for Skilled Professionals:

Direct Placement Assistance for Ready Talent. This model is for skilled individuals who need help with job placement. Ideal for those who have technical knowledge but need hiring support.

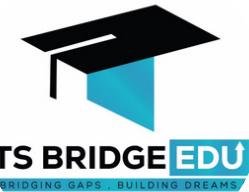
A Career, Not Just a Course – Your Job is Our Commitment.

<https://tsbridgeedu.in/>

Both Online & Offline Training available



**Everything is under
written agreement
and Bond.**



TS BRIDGE

Bridging Gaps & Building Dreams

Vision:

To bridge the gap between academic learning and professional success.

Mission:

To empower students with high-demand skills and provide companies with job ready, reliable talent

Extra Benefits of Every Course:

- Includes Capstone Projects & Internships
- Certificate of Completion + Job Guarantee Agreement
- Live Sessions + 24/7 LMS Access
- Resume, Interview, and Career Guidance from Day 1
- Project Portfolio Development for Placements

Backed by a Legal Agreement – No Empty Promises.

<https://tsbridgeedu.in/>

Both Online & Offline Training available



Everything is under
written agreement
and Bond.

Company_hiring.partners

Tech Mahindra



Deloitte.



Yonah



**GOUTAM
NEURO CARE**



KBK
BUSINESS SOLUTIONS PVT LTD



Teleperformance

EBIXCASH



**Voxvalley
Technologies**



ANALOGUE
IT Solutions™



Company_hiring.partners

Bridging Gaps & Building Dreams

Certificates Credential partners



Government of India
Ministry of Commerce and Industry
Department for Promotion of Industry and Internal Trade

www.tsbridgeedu.in

#startupindia

Our Professional Mentors

Bridging Gaps & Building Dreams



UDAY T
Data Science & GenAI (AI/ML)
7 years of Experience



ANAND
UI/UX Design
5 years of Experience



ARIZ
Full Stack Developer
5 years of Experience



Mahesh
Clinical Research
14 years of Experience



Gourav
ML / Data Structure
20 years of Experience



Koushik
Digital Marketing
3 years of Experience



Roshan
Cyber Security
4 years of Experience

Course's we offer

Bridging Gaps & Building Dreams

IT

- FullStack Development
- Data Science
- Generative AI (AI/ML)
- UI/UX Design
- Cyber Security

NON-IT

- Digital Marketing
- Human Resource
- Accounting
- Finance
- All kind of Non-IT job supports too

PHARMACY

- Clinical Research
- Medical Coding



<https://tsbridgeedu.in/>

Register now!
for first 10
candidates gets
15% discount!



FullStack Development

- HTML:** Introduction to Web Development
HTML, Fundamentals Intermediate HTML
- CSS:** CSS Basics Styling Websites with CSS
CSS Layout with Flexbox & CSS Grid
Building a Real-World Website
Responsive Web Design with CS
- Java Script :** Java Script Fundamentals
DOM Manipulation and Event Handling in JavaScript
JavaScript Runtime and Execution Context
Data Structures, Operators, and Strings
- Git & Github :** Introducing Github and Pushing Code to the Remote Repository
Managing Code with Git Branches

- Linux:** Introduction to Linux Navigating the File System File and Directory Operations
- Database foundations:** Introduction to Databases Database Management Systems (DBMS) Overview Relational Database Concepts Basic SQL Queries
- Deployment / cloud :** Introduction to Cloud Computing Types of Cloud Services (IaaS, PaaS, SaaS) Cloud Deployment Models (Public, Private, Hybrid) Basic Concepts of Deployment (Continuous Integration, Continuous Deployment)
- API consumption :** Introduction to APIs Understanding RESTful APIs API Authentication and Authorization Making API Requests and Handling Responses
- AI tools - codex types:** Introduction to AI Tools Types of Codex Models Uses and Applications of Codex Tools Comparison of Codex with Other AI Models
- Build and deploy project:** Project Planning and Setup Development and Coding Version Control and Collaboration Testing and Debugging ,Deployment Preparation Deployment Process Monitoring and Maintenance
- MERN Structure :** Advanced JavaScript Functions, Arrays & UI design Numbers, Dates, and Timers Advanced DOM and Events
- ES6 :** Object Oriented Programming with JavaScript Asynchronous JavaScript - Promises, Async / Await, and AJAX Developing a Modern JavaScript Application
- React.js:** React Hooks UseEffect, UseReducer, and Context in React Class-Based Components in React React Internals and Performance Optimization Building Complex Forms and invoice application React Routing, Redux Authentication and Route Protection React Testing
- Node.Js:** HTTP module Express.js Student Management Application Bcrypt Authentication Rest API's creation Node Module System File system & streams Events Understanding Cluster & Working threads

Express.Js Introduction to Express
Building Restful APIs using express
Express Middlewares
Rendering/Template engines Routing

MongoDB: Database Integration -
MongoDB CRUD with Mongoose &
MongoDB Mongo Data Validation
Modeling Relationships Profanity
Filtering and Post Moderation Caching &
Performance Protecting express App

Testing : Introduction to Testing Unit
Testing with Mocha Integration Testing
with Chai Mocking and Stubbing Testing
Asynchronous Code Test-Driven
Development (TDD)

Testing : Introduction to CI/CD Setting
Up a CI/CD Pipeline & Automated Testing

Cloud : Deployment Automation
Introduction to AWS for MERN EC2
(Elastic Compute Cloud), S3 (Simple
Storage Service), RDS (Relational
Database Service), Elastic Beanstalk,
Lambda Functions API Gateway,
CloudFront IAM (Identity and Access
Management) CloudWatch

Projects:

Portfolio Website: HTML, CSS,
JavaScript ,React.js (optional) Bootstrap
(optional)

E-commerce Website : React.js,
Node.js ,Express.js ,MongoDB RESTful
APIs.

Social Media Application: React.js,
Express.js, Node.js, MongoDB, RESTful
APIs Authentication (JWT)

Task Management System: React.js
Node.js Express.js MongoDB Bootstrap
RESTful APIs Authentication (JWT)

Real-Time Chat Application : React.js
Node.js Express.js MongoDB Socket.io
(for real-time communication)

Blog Platform : React.js Node.js
express.js MongoDB RESTful APIs
Authentication (JWT)



Data Science

SQL Basics: SELECT statements, Subqueries , Common Table Expressions, and Windows functions

Advanced Excel : Basic functions: SUM, AVERAGE, COUNT, etc. .advanced functions like VLOOKUP. Creating PivotTables and Pivot Charts, Text functions, date functions, and data manipulation, macros and basic automation techniques

Statistics : Sample vs population Numerical(continuous and discrete) and categorical, nominal, ordinal, interval scale, ratio scale Measures of central tendency Measures of dispersion Important terminology, Types of probability, Normal distribution & Z distribution Correlation, Z-test, T-test, Anova and chi-squared test

Mini Capstone Project: This capstone project is designed to combine practical skills in SQL, advanced Excel techniques, and foundational statistics to analyze and interpret data effectively.

Participants will leverage these tools to conduct comprehensive data analysis, uncover patterns, and make data-driven decisions.

Power BI Fundamentals : Introduction to Power BI Building Basic Visualizations Data Modeling in Power BI ,Advanced Visualizations Introduction to Dataflows in Power BI, Advanced Data Cleaning and Transformation Integrating Dataflows with Power BI. Introduction to DAX Power BI Service and Sharing Performance Optimization Power BI Best Practices .

Python : All basic to advance concepts of python and all modules which are required for implementation data science projects.

Power BI Automate, AI Builder and Dataflows :Custom Applications with Power Apps

Microsoft Dataverse and Microsoft Fabric : Understanding Microsoft Dataverse Integrating Dataverse with Power BI Introduction to Microsoft Fabric Custom Applications with Power Apps Advanced Data Integration Power Platform Solutions

Machine Learning: Implementation of all machine learning algorithms and how to make it possible to learn pattern of data . and find its predictability.

Deep Learning: all the neural networks implementation to deal with any kind of data.

Bonus:

Storytelling

Databricks

SQL extra resources

GPT

Snowflake

Deep Learning

R

NLP

Pyspark

Azure Data Factory



Generative AI (AI/ML)

python: Gain a basic understanding of Python programming

Machine Learning: Introduction to machine learning concepts

Introduction to Generative AI : Overview of Generative AI, Generative AI vs. Traditional AI, Use Cases, Understanding AI: Basics and Use Cases, Differentiating ML, DL, and AI

Basics on NLP I : What is NLP, History of NLP, NLP End to end workflow, Stopwords, Tokenization, Stemming, Lemmatization, POS tagging, TFIDF

Basics on NLP 2: One hot encoding, Bag of words, Unigram, Bigram, ngram, Word embeddings Skip Gram, Word2vec model

NLP Models: RNN, LSTM Models & GRU Models, Transfer learning

Lab: Hands-on experience with NLP models.

Advance NLP : Encoder-decoder architecture, Attention mechanism, Transformer, BERT

Lab introduction: Text Translation using Encoder-decoder Architecture :

Hands-on experience with text translation using the encoder-decoder architecture.

Understand the working of LLMs :

LLM, Use Cases, Text Generation, Chatbot Creation, Foundations of Generative Models & LLM, Generative Adversarial Networks (GANs), Autoencoders in Generative AI, Significance of Transformers in AI, "Attention is All You Need" - Transformer Architecture, Reinforcement Learning, RLHF

LLMs Foundation Models :

Encoder Models i.e., BERT, Decoder Models GPT, Encoder Decoder Model i.e., T5

Real World Applications and Case Studies:

Real-world applications and case studies of LLM's

Fine Tuning and Evaluating LLMs:

Instruction fine-tuning, Fine-tuning on a single task, Multi-task instruction fine-tuning, Model evaluation, Benchmarks, Parameter efficient fine-tuning (PEFT), PEFT techniques 1: LoRA, PEFT techniques 2: Soft prompts, Lab 2 walkthrough

Evaluation Matrix:

Rouge1, BLEU, Meteor, CIDEr

Reinforcement Learning and LLM Powered Applications

Reinforcement Learning, LLM Applications

Deployment and Hardware Considerations

Deployment Strategies, Hardware Requirements

Langchain

Langchain: A Framework for LLMs

LLMOps

LLM Operations, Scalability, Best Practices

Introduction to Generative AI on Cloud: Hugging Face / Hugging Face Hub

Hugging Face, GCP and Hugging Face Overview

Generative AI on Cloud - AWS

AWS Sagemaker, AWS Jumpstart, AWS Bedrock

Ethics and Responsibility in Generative AI

Responsible AI, Google's Approach, Ethical Issues

Capstone Project

Final project to apply the skills learned



Cyber Security

Introduction to Cybersecurity:

- Define cybersecurity and its importance
- Identify common threats and vulnerabilities
- Discuss cybersecurity best practices

Network Fundamentals:

- Explain network basics (TCP/IP, OSI model)
- Understand network devices (routers, switches, firewalls)
- Discuss network protocols (HTTP, HTTPS, FTP)

Operating System Security:

- Compare and contrast Windows, Linux, and macOS
- Discuss user rights and permissions
- Explain system hardening techniques

Cryptography:

- Define cryptography and its importance
- Explain encryption and decryption algorithms (AES, RSA)
- Discuss key management and digital signatures

Ethical Hacking Fundamentals :

- Define ethical hacking and its purpose
- Explain the ethical hacking methodology (reconnaissance, scanning, enumeration, exploitation, post-exploitation)
- Discuss legal and ethical considerations

Reconnaissance Techniques :

- Gather information using passive and active techniques (Google hacking, DNS enumeration, who is lookup)
- Identify potential vulnerabilities and targets

Network Scanning and Enumeration :

- Use tools like Nmap and Nessus to scan networks and identify open ports and services
- Enumerate services and gather information about running applications

Vulnerability Assessment and Exploitation:

- Identify vulnerabilities using tools like Metasploit and Burp Suite
- Exploit vulnerabilities to gain unauthorized access

Web Application Pentesting :

- Understand the OWASP Top 10 vulnerabilities
- Perform manual and automated web application testing
- Identify and exploit vulnerabilities like SQL injection, XSS, and CSRF

Mobile Application Pentesting :

- Understand mobile app security threats
- Perform manual and automated mobile app testing
- Identify and exploit vulnerabilities like insecure storage and network traffic

Social Engineering :

- Define social engineering and its techniques (phishing, pretexting, baiting)
- Recognize social engineering attacks and protect against them

Security Operations Center (SOC) :

- Understand the role of a SOC
- Discuss SOC tools and technologies (SIEM, IDS, IPS)
- Analyze security events and incidents

Malware Analysis :

- Define malware and its types (viruses, worms, trojans)
- Analyze malware behavior and identify threats

Incident Response :

- Develop an incident response plan
- Handle security incidents effectively
- Conduct incident investigation and analysis

Cloud Security :

- Understand cloud computing and its security challenges
- Discuss cloud security best practices and compliance standards (AWS, Azure, GCP)

Data Privacy and Protection :

- Explain data privacy laws and regulations (GDPR, CCPA)
- Implement data protection measures (encryption, access controls)
- Handle data breaches effectively

Ai in Cyber security:

- Discuss Ai security threats and controls
- Implement Ai in cyber security

Security Auditing and Compliance:

- Understand security auditing and compliance frameworks (ISO 27001, NIST CSF)
- Conduct security audits and assessments
- Ensure compliance with regulations and standards

Capstone Project :

- Conduct a comprehensive cybersecurity project (e.g., pentesting a network, developing a security policy)
- Demonstrate practical skills and knowledge

Additional Topics :

- 1. VAPT on Network:** Vulnerability Assessment and Penetration Testing on a network, including methodology, tools, and benefits.
 - 2. VAPT on Web Application:** Vulnerability Assessment and Penetration Testing on web applications, including methodology, tools, and benefits.
 - 3. VAPT on Mobile Application:** Vulnerability Assessment and Penetration Testing on mobile applications, including methodology, tools, and benefits.
 - 4. Interview Preparation:** Preparing for a cybersecurity interview, including common questions, tips for acing the interview, and recommended resources.
 - 5. Internet of Things (IoT) Security:** Securing IoT devices and networks.
 - 6. Blockchain Security:** Securing blockchain-based systems.
 - 7. Cybersecurity Frameworks and Standards:** Understanding cybersecurity frameworks and standards, such as NIST and ISO 27001.
- Cybersecurity Awareness and Training:** Educating users on cybersecurity best practices.



UI/UX Design

UX Research : Difference Between UI/UX, Business Requirement Gathering, User Research, User Interview Techniques.

Data Analysis : Research Data AnalysisB 6 Competitor Bench markin 6 Heuristic Analysis

Design Strategy/Direction: Ideation (up to 3 techniques) , Whiteboarding, Journey Map, Motivation mapping, Empathy mapping process, Information Architecture, Navigation, Content through Card Sorting, Sitemap, User Flows

UI Tool :

Figma
Miro
Balsami
Creatie a.i

User Interaction :

Typography Colour Theory
Navigation, Gestalt Principle,
UI Principle, Design System, Grid Line,
Responsive system, Prototyping,
Wireframe, UI Screens.

UX Psychology:

Heuristics Principle, UX Law, Minimalism and Maximalism, cognitive bias psychology

Hands on Project:

Website Designing
Mobile App
Android
Mobile App Ios
Portfolio
Resume Preparation
Interview Preparation

UX Research :

1. UX introduction
- 2.Primary Research
- 3.Secondary Research
- 4.Quantitative research
- 5.Qualitative research
- 6.Affinity Mapping
- 7.IDEATION & BRAINSTORMING
- 8.Competitive analysis
- 9.Empathy mapping
- 10.user persona
- 11.user story
12. information architecture
- 13.user flow
- 14.wireframes

User Interface (Designing) :

1. Grid system
- 2.Color Psychology
- 3.Typography
- 4.buttons
5. Material Design
6. PSYCHOLOGY PRINCIPLES ALL UI DESIGNER
- 7.Visual appearance
- 8.Interview Questions
- 9.Soft copy



Clinical Research

Introduction to Clinical Research :

- Why and when clinical research is needed
- History of Clinical Research
- Drug Development Stages
- Drug Discovery Process
- Pre-Clinical Trials

Guidelines & Regulatory Bodies in Clinical Research :

- Overview of guidelines in clinical research
- ICH GCP Principles
- Indian GCP Principles
- ICMR Principles
- Schedule Y and its Appendix
- Key regulatory authorities: FDA, EMA, MHRA, TGA, etc.
- Latest amendments in clinical research

Phases & Types of Clinical Research:

- Phase 0 to Phase IV studies
- Subclasses of clinical research phases
- Classification based on researcher behavior
- Observational and experimental/interventional studies
- Classification based on research purpose
- Randomised controlled trials
- Blinded and open-label studies

Stakeholders in Clinical Research:

- Regulatory Authorities
- Institutional Review Board (IRB)/Independent Ethics Committee (IEC)
- Sponsors, CROs, SMOs
- Investigators and Patients

Essential Documents and Trial Master File (TMF):

- Trial Protocol
- Informed Consent Form and Patient Information Sheet (PIS)
- Investigator's Brochure
- Dossiers and Case Report Forms
- Managing the Trial Master File

IRB/IEC Composition and Responsibilities:

- Structure and functions of IRB/IEC
- Key responsibilities in clinical research

Clinical Research Process Flow:

- Overview of clinical research process and flowcharts
- Site-level clinical research process

Clinical Data Management Introduction:

- Introduction to Clinical Data Management (CDM)
- Role and importance in clinical research

Principles of Clinical Trials:

- Key principles guiding clinical trials
- Ethical and scientific considerations

21 CFR Part 11 Introduction:

- Regulatory requirements for electronic records and signatures

Good Clinical Practice (GCP):

- GCP principles and their application in clinical trials

Clinical Data Management Phases:

- Overview of CDM phases from start-up to close-out

Start-Up Phase in Clinical Data Management:

- eCRF (electronic Case Report Form) design
- Data cleaning specifications (DCS)
- Data validation specifications (DVS)
- eCRF completion guidelines
- User Acceptance Testing (UAT)
- Test case writing

Conduct Phase in Clinical Data Management:

- Introduction to conduct phase activities

Discrepancy Management:

- Handling and resolving data discrepancies

Data Set Validation and Offline Listing Review:

- Data set validation review
- Offline listing review procedures

Third-Party Vendor Reconciliation:

- LAB, PK, and IWRS reconciliation processes

SAE (Serious Adverse Event) Reconciliation:

- Managing and reconciling SAE data

Study Close-Out Phase:

- Introduction and activities for study close-out





Medical Coding

The World of USA Healthcare:

Daily activities in US medical facilities
Responsibilities of Medical coders and Billers
Career opportunities available to Medical Coding and Billing specialists

Medical Terminology : Introduction to Medical Terminology Root words, Suffixes, Prefixes and Combining Vowels Medical Terminology:
Dividing and Combining Terms Abbreviations Documentation of Medical Records

Human Anatomy & Physiology : Digestive System Nervous System Respiratory System Urinary System Musculoskeletal System Endocrine System Cardiovascular System Blood and Blood-Forming Organs Lymphatic System Reproductive Systems

Medical Ethics :

Confidentiality with Medical Records (HIPAA Guidelines) Insurance Audits Legal Concepts Involved

Diagnostic Coding :

Introduction to Diagnostic Coding ICD-10-CM Coding Manual Introduction

ICD-10-CM Diagnosis Coding:

Diagnosis Coding Procedures Basic Coding Exercises

ICD-10-CM Coding to Infections of Blood diseases :

Coding of endocrine, nutritional, metabolic, and blood diseases

ICD-10-CM Coding to Mental disorders to Respiratory diseases :

Nervous system, Circulatory or Blood system Respiratory system

ICD-10-CM Coding to Pregnancy & Genitourinary disorders:

Puerperium Complications of Pregnancy

ICD-10-CM Coding from Skin to Perinatal period

Musculoskeletal system Congenital abnormalities How to code Skin related diagnoses?

ICD-10-CM Coding to Symptoms and Poisoning

Coding for Injuries Poisoning

CPT Coding

Differentiate between CPT and HCPCS codes Format of the CPT Coding Manual Basic steps of CPT coding

CPT Coding from Integumentary System

This module helps the learner to understand codes related to the integumentary system Coding like Biopsies, Skin Lesions, Excisions, Burns, Breast Procedures and Skin Grafts.

CPT Coding from Reproductive System to Operating Microscope

Endoscopic Procedures related to the Endocrine & Nervous Systems Visual and Auditory Systems Coding for Microscopic Procedures

CCPT Coding for Anesthesia, Radiology, Pathology & Laboratory and Medicine

Coding Radiology Procedures Radiology Terms, Sections, Subsections and Guidelines Guidelines and Coding information for Pathology Anesthesia Modifiers

CPT Coding for Evaluation & Management Services

Documentation Guidelines Evaluation & Management Level sections

CPT Comprehensive Surgery coding

Musculoskeletal System
Digestive System

Reproductive System and Urology
Cardiovascular and Pulmonary Systems

HCPCS Coding
Medical Coding Future Practice



Digital Marketing

Introduction to Digital Marketing:

- Definition and significance of digital marketing
- Evolution and landscape of digital marketing
- Digital vs. traditional marketing
- Key drivers and trends
- The digital consumer and online communities

Digital Marketing Strategy & Planning:

- Understanding digital users and market segmentation
- Consumer decision journey
- POEM framework (Paid, Owned, Earned Media)
- Crafting a digital marketing plan
- Digital advertising market overview

Website Planning & Development :

- Website objectives and essentials of design
- Domain names, hosting, and CMS overview
- Landing pages and user experience trends
- Website creation and SEO audit basics

Search Engine Optimization (SEO):

- SEO fundamentals and importance
- Keyword research and content optimization
- On-page and off-page SEO techniques
- Google Webmaster Tools and analytics overview

Search Engine Marketing (SEM) & Online Advertising:

- Introduction to SEM and online advertising
- PPC campaigns (Google Ads, Bing Ads)
- Ad formats, targeting, and budgeting
- Display advertising and programmatic buying

Social Media Marketing:

- Facebook, Instagram, LinkedIn, Twitter marketing
- Content creation, campaign management, analytics
- Influencer and community marketing

Email & Affiliate Marketing:

- Email marketing strategy and tools (Mailchimp, etc.)
- Building and segmenting email lists
- Affiliate marketing models and best practices

Content Marketing & Copywriting:

- Content creation strategies for digital channels
- Blogging, video, and visual content
- Copywriting for web and social media

Mobile & Video Marketing:

- Video advertising (YouTube, social platforms)
- Creating engaging and effective video content

Analytics & Performance Measurement:

- Introduction to web and campaign analytics
- Google Analytics fundamentals
- KPIs, conversion tracking, and reporting

eCommerce & Digital Selling:

- eCommerce platforms and digital sales funnels
- eCommerce marketing tactics (SEO, SEM, SMM)
- Customer journey and conversion optimization

Digital Marketing Trends & Case Studies:

- Latest trends and innovations in digital marketing
- Case studies from leading brands and campaigns
- Legal, ethical, and privacy considerations