B.Tech MINI

Project Ideas/Titles

S.No	Project Title	Description	Domain
1	Smart Attendance System	Uses facial recognition to automate attendance tracking for classrooms.	AI/Computer Vision
2	Online Voting System	A secure web-based platform for conducting elections with voter authentication.	Web Development
3	Chatbot for College Enquiry	A chatbot to answer student queries about courses, admissions, and other college-related info.	AI/NLP
4	Traffic Signal Automation	Uses IoT and real-time data to manage and optimize traffic signal timings in urban areas.	IoT/Smart Cities
5	E-Library Management System	A digital library system with features for borrowing, returning, and managing books.	Software Engineering
6	Movie Recommendation System	A system using collaborative filtering to recommend movies based on user preferences.	Data Science/ML
7	Weather Forecasting App	Uses weather APIs and machine learning models to predict local weather conditions.	ML/Software Development
8	College Placement Portal	A platform for managing placement activities, including student profiles and company registrations.	Web Development
9	AI-Powered Healthcare Chatbot	A chatbot that provides medical advice and preliminary diagnostics based on user symptoms.	AI/Healthcare
10	IoT-Based Smart Farming System	Uses IoT sensors for soil moisture, temperature, and humidity to optimize agricultural activities.	IoT/Agriculture

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S.No	Project Title	Description	Domain
11	Cybersecurity Vulnerability Scanner	A tool to identify security loopholes in web applications and networks.	Cybersecurity
12	Online Food Ordering System	A platform for customers to order food and track delivery status in real time.	Web Development
13	Smart Home Automation	IoT-based project to control and monitor home appliances remotely using a mobile app.	IoT/Smart Homes
14	Personal Finance Tracker	A web application to help users track expenses, set budgets, and analyze spending habits.	FinTech/Web Development
15	AI-Powered Resume Analyzer	Uses NLP to parse resumes and match them to job descriptions for recruitment purposes.	AI/NLP
16	Fitness Tracker with Wearable Tech	A fitness tracking system using IoT wearables for step count, heart rate, and sleep monitoring.	IoT/Fitness
17	Sentiment Analysis for Social Media	Analyzes user comments and posts to determine sentiments like positive, negative, or neutral.	Data Science/NLP
18	Online Quiz System	A customizable platform for creating and conducting quizzes for students or employees.	Web Development
19	Real-Time Object Detection	Implements object detection using YOLO or OpenCV for surveillance or industrial applications.	AI/Computer Vision
20	Smart Waste Management System	IoT-based system to monitor and optimize waste collection in urban areas.	IoT/Smart Cities

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21	Digital Payment Gateway	A platform to facilitate secure online payments and transactions for e-commerce sites.	FinTech/Web Development
22	College Event Management System	A web application to manage and register participants for college events and activities.	Web Development
23	Inventory Management System	A system to track and manage stock levels, orders, and sales for small businesses.	Software Engineering
24	Online Exam System	A secure online platform to conduct exams with automated grading and result generation.	Web Development
25	Voice-Controlled Home Automation	An IoT-based project where users can control appliances using voice commands.	IoT/AI
26	Document Scanner	A mobile app that scans documents and converts them into PDFs with OCR capabilities.	Mobile Development/AI
27	Parking Management System	A system to manage parking spots in a public or private parking lot with real-time updates.	IoT/Smart Cities
28	Blockchain-based Voting System	A secure voting system using blockchain technology for transparency and security.	Blockchain/Cybersecurity
29	Travel Itinerary Planner	A web application that helps users plan their trips, suggesting destinations, accommodations, and routes.	Web Development
30	Image Caption Generator	A system that generates captions for images using deep learning models like CNN and RNN.	AI/Computer Vision/ML

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S.No	Project Title	Description	Domain
31	Social Media Analytics Tool	Analyzes data from social media platforms to provide insights on trends, engagement, and user behavior.	Data Science
32	Chat Application with Encryption	A secure messaging app with end-to-end encryption for private conversations.	Mobile Development/Cybersecurity
33	File Compression Tool	A tool that compresses files to reduce their size without losing data integrity.	Software Development
34	Online Auction System	A platform where users can bid for products or services in real time.	Web Development
35	Stock Price Prediction System	Uses machine learning to predict future stock prices based on historical data and trends.	Data Science/ML
36	Language Translation App	A mobile application that translates text or speech from one language to another using AI/ML.	AI/ML
37	E-commerce Recommendation System	Recommends products to users based on browsing and purchasing behavior using collaborative filtering.	Data Science/ML
38	Online Grocery Shopping System	A platform to allow users to order groceries online with delivery scheduling.	Web Development
39	Automated Resume Builder	A tool that automatically generates resumes based on user inputs and templates.	Web Development
40	Cryptocurrency Price Tracker	A web or mobile app that tracks cryptocurrency prices in real time with historical data analysis.	FinTech

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41	Image Filter Application	A mobile app that applies different image filters (e.g., sepia, black and white) to photos.	Mobile Development/AI
42	Automated Email Response System	A system that automatically replies to emails based on predefined templates and conditions.	AI/Automation
43	Video Streaming Platform	A platform that allows users to upload, stream, and view videos in real time.	Web Development
44	Voice Assistant for Smart Homes	A voice-controlled system that manages home automation tasks like controlling lights and temperature.	AI/IoT
45	Student Grade Prediction System	A system that predicts a student's future grades based on past performance using machine learning.	Data Science/ML
46	Virtual Reality Learning App	An interactive VR-based app for immersive learning in subjects like history, science, etc.	VR/EdTech
47	Online Library Catalog	A digital catalog of books in a library with search and categorization features.	Web Development
48	QR Code Scanner and Generator	A mobile app that generates and scans QR codes for URLs, text, or contact information.	Mobile Development
49	IoT-based Smart Watering System	Uses IoT sensors to monitor soil moisture and water plants automatically when needed.	IoT/Agriculture
50	Face Mask Detection System	An AI-based system to detect whether a person is wearing a mask in public places or buildings.	AI/Computer Vision

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51	Movie Ticket Booking System	A platform that allows users to book movie tickets online, view showtimes, and select seats.	Web Development
52	AI-Based Spam Email Classifier	A system that classifies incoming emails as spam or not based on content and sender information.	AI/NLP
53	Voice-to-Text Conversion	A tool that converts spoken words into text using speech recognition algorithms.	AI/NLP
54	Multi-Language Chatbot	A chatbot that can converse in multiple languages, offering customer support in real time.	AI/NLP
55	Online Auction System	A platform that enables users to bid on products in real-time auctions.	Web Development
56	Digital Business Card App	A mobile app that lets users create, share, and manage digital business cards.	Mobile Development
57	AI-Powered News Aggregator	An AI-based system that gathers news articles from various sources and personalizes the feed.	AI/News Aggregation
58	Fitness App with Diet Planner	An app that tracks physical activity and provides a personalized diet plan based on fitness goals.	Mobile Development
59	IoT-based Smart Lighting System	An IoT system that controls the lighting of a room based on occupancy and time of day.	IoT/Smart Homes
60	Cryptocurrency Wallet	A secure digital wallet for storing and managing cryptocurrencies like Bitcoin and Ethereum.	Blockchain/FinTech

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61	Smart Mirror	A mirror that displays time, weather, and other relevant information while also acting as a reflective surface.	IoT/Smart Homes
62	AI-Powered Job Portal	A job portal that uses AI to match job seekers with relevant job listings based on their profiles.	AI/Web Development
63	Real-Time Chat Application	A real-time messaging application with features like group chat, notifications, and media sharing.	Web/Mobile Development
64	Task Management Application	A project management tool that helps users create, assign, and track tasks for teams or individuals.	Software Development
65	Speech Emotion Recognition	A system that analyzes voice tone to determine emotional states like happiness, sadness, or anger.	AI/NLP
66	Smart Door Lock System	An IoT-based system that allows users to lock/unlock doors remotely using smartphones or biometrics.	IoT/Smart Homes
67	Virtual Stock Trading System	A simulated stock trading platform that allows users to practice trading without real money.	FinTech/Software
68	Image to ASCII Art Converter	A tool that converts images into ASCII art, where pixel values are mapped to characters.	Software Development
69	Cryptocurrency Portfolio Tracker	A web or mobile app that tracks the value of cryptocurrencies in real-time and provides portfolio analysis.	FinTech
70	Weather App with Real-Time Updates	A weather forecasting app that provides real-time updates and notifications for your location.	Mobile Development

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71	Blockchain-based Supply Chain	A system that tracks and verifies products through a supply chain using blockchain technology.	Blockchain/Logistics
72	Smart Traffic Management System	An IoT-based system that optimizes traffic signals and flow based on real-time traffic data.	IoT/Smart Cities
73	Real-Time Language Translation	A mobile app that translates text or voice in real-time for easier communication in multiple languages.	AI/NLP
74	Email Newsletter System	A platform for users to create and send email newsletters, track open rates and clicks.	Web Development
75	Video Compression Tool	A tool that reduces the size of video files while maintaining quality, useful for easier sharing.	Software Development
76	AI-Based Traffic Prediction	A system that predicts traffic conditions using real-time data and machine learning algorithms.	AI/ML
77	E-Store Management System	A system for managing an online store, including inventory, payments, and customer orders.	Web Development
78	Augmented Reality Shopping App	An app that uses augmented reality to show how products (like furniture or clothes) look in real life.	AR/Shopping
79	IoT-Based Heart Rate Monitoring	An IoT system that tracks heart rate and other health metrics in real time.	IoT/Healthcare
80	Automatic Image Resizer	A tool that resizes images to multiple dimensions while preserving aspect ratio and quality.	Software Development

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81	Online Polling System	A platform where users can create, manage, and participate in polls or surveys.	Web Development
82	IoT-Based Smart Meter System	A system that monitors and tracks electricity consumption using IoT-enabled smart meters.	IoT/Smart Cities
83	Chatbot for Customer Service	A chatbot that provides automated customer support and resolves issues based on predefined queries.	AI/NLP
84	Employee Leave Management System	A system to manage employee leave requests, approvals, and reports.	Web Development
85	QR Code Generator	A tool that generates customizable QR codes for different types of content (URLs, text, etc.).	Software Development
86	Real-Time Weather Monitoring System	A system that collects weather data from various sensors and displays it in real time.	IoT/Smart Cities
87	Personal Assistant App	An app that helps users manage their tasks, reminders, calendar, and daily activities.	Mobile Development
88	Smart Health Monitoring System	An IoT-based system that monitors vital health statistics and alerts users to any abnormalities.	IoT/Healthcare
89	Voice-Controlled Assistant	A voice-enabled system that performs tasks like setting reminders, controlling smart devices, etc.	AI/IoT
90	Automated Data Entry System	A tool that automates data entry tasks by extracting information from documents and entering it into a database.	Automation/Data Science

S.No	Project Title	Description	Domain
91	Online Recipe Finder	A web app where users can search for recipes based on available ingredients.	Web Development
92	Task Automation System	A system that automates repetitive tasks like data entry, scheduling, and sending emails.	Automation/Software
93	Face Recognition Attendance System	A system that uses facial recognition to mark student or employee attendance in real time.	AI/Computer Vision
94	AI-Powered Text Summarizer	A tool that condenses long articles into shorter summaries using natural language processing.	AI/NLP
95	Travel Expense Tracker	An app that helps users track and categorize their travel expenses in real time.	Mobile Development
96	Smart Waste Management System	A system that optimizes waste collection schedules using IoT sensors for trash bin fill levels.	IoT/Smart Cities
97	Social Media Post Scheduler	A platform that lets users schedule and manage posts on various social media platforms.	Web Development
98	Online Code Editor	A web-based code editor with syntax highlighting, real-time collaboration, and file saving features.	Web Development
99	Voice-Activated Home Assistant	A voice-based assistant for controlling home automation systems, like lighting and thermostats.	AI/IoT
100	Language Learning App	An app that helps users learn new languages through quizzes, exercises, and real-time translations.	Mobile Development/AI

S.No	Project Title	Description	Domain
101	Video Conference System	A system for hosting virtual meetings with features like screen sharing, video chat, and file sharing.	Web Development
102	Budgeting App	An app that helps users track and manage their income and expenses, providing budgeting tools and analytics.	Mobile Development
103	Inventory Barcode Scanner	A system that uses a barcode scanner to manage inventory and track products in a warehouse.	IoT/Software
104	Secure File Sharing System	A platform that allows users to securely share files using encryption and access control.	Cybersecurity/Web
105	Smart Calendar App	A calendar app that schedules meetings based on availability, locations, and user preferences.	Mobile Development
106	Document Management System	A web-based system for storing, organizing, and retrieving documents in a digital library.	Web Development
107	Cryptocurrency Price Alert App	An app that alerts users when their chosen cryptocurrencies hit specific price targets.	FinTech/Software
108	IoT-Based Smart Refrigerator	A refrigerator that monitors and notifies users about stock levels, temperature, and expiry dates.	IoT/Smart Homes
109	News Aggregator	A system that gathers news articles from various sources and presents them based on user interests.	Web Development/AI
110	Online Donation Platform	A platform where users can make donations to charities or causes, with features for tracking donations.	Web Development

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111	Augmented Reality Navigation	An AR-based app that helps users navigate through indoor locations (e.g., malls, airports).	AR/Navigation
112	Image Search Engine	A system that allows users to search for images based on keywords and visual similarity.	AI/Computer Vision
113	Smart Parking System	An IoT-based system that finds and reserves parking spaces in real time in a parking lot.	IoT/Smart Cities
114	Recipe Recommendation System	A system that suggests recipes based on ingredients available at home.	AI/Recommendation
115	Digital Currency Converter	A web app that converts between multiple digital currencies and fiat currencies in real-time.	FinTech/Web Development
116	Automated Image Captioning	A deep learning model that generates captions for images based on their content.	AI/Computer Vision
117	File Encryption and Decryption Tool	A tool that encrypts and decrypts files using cryptographic algorithms for security.	Cybersecurity/Software
118	Smart Lighting Control System	An IoT-based system that adjusts lighting in a room based on ambient light levels and user preferences.	IoT/Smart Homes
119	QR Code-Based Access Control	A security system that grants or denies access based on scanned QR codes linked to a database.	IoT/Cybersecurity
120	Event Ticketing System	A platform where users can book tickets for events, concerts, or theater shows.	Web Development

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S.No	Project Title	Description	Domain
121	Personal Portfolio Website	A personal website to showcase your skills, projects, and achievements in a professional format.	Web Development
122	Voice-Controlled Robot	A robot that responds to voice commands and performs tasks like moving, picking objects, etc.	Robotics/AI
123	Online Chatbot for FAQs	A chatbot that answers frequently asked questions and provides support for a website or app.	AI/NLP
124	Machine Learning Music Recommender	A system that recommends music based on user preferences and listening history using machine learning.	AI/ML
125	IoT-Based Smart Garden	A system that monitors and manages the health of plants, such as watering and light adjustment.	IoT/Agriculture
126	Language Translator with Camera	An app that uses the camera to translate text from images in real time.	AI/NLP/Computer Vision
127	Online Survey System	A platform where users can create, distribute, and analyze surveys.	Web Development
128	Chat Application with File Sharing	A real-time messaging app that supports media sharing like images and files.	Web/Mobile Development
129	Automated Website Testing Tool	A system that automates the testing of websites by checking for functionality, responsiveness, etc.	Software Testing/Automation
130	Interactive Story Game	A game where users can interact with the story by making decisions that affect the outcome.	Game Development

S.No	Project Title	Description	Domain
131	Expense Tracker with Graphs	A personal finance app that tracks spending and provides graphical representations of expenses.	Mobile/Web Development
132	Grocery Shopping Assistant	An app that helps users create grocery lists, find discounts, and suggest recipes based on ingredients.	Mobile Development
133	Smart Mirror Fitness Tracker	A smart mirror that tracks and displays fitness metrics, such as calories burned and workout stats.	IoT/HealthTech
134	Online Voting System	A secure online voting system with user authentication and transparent vote tracking.	Web/Cybersecurity
135	Mobile Weather Forecast App	A weather forecasting app that shows real-time conditions, hourly forecasts, and severe weather alerts.	Mobile Development
136	Image Gallery with Search Feature	A photo gallery app with features like image search, categorization, and tagging.	Mobile/Web Development
137	IoT-Based Smart Doorbell	A smart doorbell that connects to your phone and sends a notification when someone is at your door.	IoT/Smart Homes
138	AR Furniture Placement App	An app that uses augmented reality to allow users to visualize furniture in their living space.	AR/Interior Design
139	Automated Job Application System	A system that automatically fills job applications by extracting user data from resumes.	Web/Automation
140	Personal Health Dashboard	A system that tracks daily health metrics (e.g., steps, calories, sleep) and visualizes them.	HealthTech/Data Science

S.No	Project Title	Description	Domain
141	Automated Resume Screener	A tool that automatically scans resumes and shortlists candidates based on keywords and criteria.	AI/HR Tech
142	Digital Payment System	A platform that allows users to make online payments, integrate with wallets, and manage transactions.	FinTech/Web Development
143	Smart Home Security System	An IoT system that monitors home security using cameras, sensors, and sends alerts to users.	IoT/Smart Homes
144	Online Exam System	A system where users can take exams, with automated grading and certificate issuance.	Web Development
145	Voice Modulator	An app that changes the pitch, tone, and speed of the user's voice for fun or privacy.	Mobile Development
146	IoT-Based Weather Station	An IoT system that gathers real-time weather data (temperature, humidity, pressure) and displays it.	IoT/Weather Monitoring
147	Multi-Player Online Game	A simple multiplayer online game where users can play against each other in real time.	Game Development
148	Product Recommendation Engine	A recommendation engine that suggests products based on user browsing and purchase history.	AI/ML
149	Task Reminder App	An app that sends reminders to users about upcoming tasks or events with customizable alerts.	Mobile Development
150	Book Management System	A system to manage a collection of books, with features for adding, categorizing, and searching.	Web Development