AI PROJECTS

THE FINAL PROJECTS

150 New AI / ML / DL Project Titles (Fresh & Sorted by Domain)

☐ Healthcare & Medical AI

- 1. Al-Based Early Detection of Skin Cancer Using Mobile App
- 2. Real-Time ECG Signal Classification Using Deep Learning
- 3. Al-Powered Virtual Doctor Using NLP for Patient Diagnosis
- 4. Machine Learning for Predicting Epileptic Seizures
- 5. Parkinson's Disease Detection Using Speech Signal Analysis
- 6. Smart Wearable AI for Health Monitoring
- 7. Al-Based Breast Cancer Risk Assessment Using EHR Data
- 8. Pneumonia Detection from Chest X-Rays Using CNN
- 9. Al-Powered Drug Discovery Using Graph Neural Networks
- 10. Sleep Disorder Prediction Using Deep Learning and IoT
- 11. Diabetic Retinopathy Detection from Retinal Images
- 12. COVID-19 Severity Prediction from Blood Test Data
- 13. Mental Health Chatbot Using NLP and Sentiment Analysis
- 14. Deep Learning-Based Alzheimer's Detection Using MRI
- 15. Cancer Cell Classification Using Histopathological Images

Healthcare + Recommendation Systems

- 16. Personalized Health Insurance Premium Predictor Using ML
- 17. Smart Diet Recommendation System for Chronic Patients
- 18. Al-Driven Therapy Recommendation for Depression

- 19. Doctor Suggestion System Based on Symptoms and Reviews
- 20. Fitness Plan Recommender Based on Lifestyle and Goals

Computer Vision

- 21. Real-Time Object Detection Using YOLOv8
- 22. AI-Powered Smart Attendance System with Face Recognition
- 23. Helmet Detection for Riders Using Deep Learning
- 24. Road Accident Detection Using CCTV and Deep Learning
- 25. AI-Based Crowd Counting System in Public Places
- 26. Garbage Detection for Smart City Waste Management
- 27. Plant Species Classification from Leaf Images
- 28. Real-Time Fire Detection in Forests Using Drone Footage
- 29. Drowsiness Detection System for Drivers Using Eye Tracking
- 30. Age and Gender Prediction from Face Images
- 31. Optical Character Recognition for Indian Handwriting
- 32. Weapon Detection System for Public Safety
- 33. Car Brand Recognition System Using Deep CNN
- 34. Real-Time Emotion Recognition from Facial Expressions
- 35. License Plate Detection and Recognition System

◯ NLP (Natural Language Processing)

- 36. Real-Time News Categorization Using NLP
- 37. Hate Speech Detection on Twitter Using BERT

38. Resume Screening System Using NLP and AI	
39. Question Answering System Using Transformers	
40. Legal Document Classifier Using NLP	
41. Fake News Detection Using BiLSTM	
42. Mental Health Detection from Reddit Posts	
43. Real-Time Language Translation Chatbot	
44. Text Summarization Tool Using Deep Learning	
45. Sentiment Analysis of YouTube Comments	
46. Automated Essay Grading System Using NLP	
47. Personalized Email Auto-Responder with GPT	
48. Political Sentiment Analysis During Elections	
49. Text-Based Emotion Recognition from Chat Messages	
50. Keyword Extraction and Topic Modeling from Articles	

Finance & Fraud Detection

- 51. Credit Card Fraud Detection Using Ensemble Models
- 52. Stock Price Forecasting Using LSTM
- 53. Loan Default Prediction Using Gradient Boosting
- 54. AI-Based Personal Finance Advisor
- 55. Cryptocurrency Price Movement Prediction
- 56. Automated Invoice Verification System Using OCR + ML
- 57. Insurance Claim Fraud Detection Using AI
- 58. Customer Churn Prediction for Banks

- 59. Stock Market News Sentiment Analyzer
- 60. AI-Based Portfolio Recommendation System

Smart Cities, IoT, and Environment

- 61. Smart Traffic Light System Using AI and CV
- 62. Air Quality Prediction Using Real-Time Sensor Data
- 63. Water Usage Prediction in Smart Homes
- 64. Forest Fire Prediction Using Satellite Images
- 65. Smart Energy Consumption Prediction in Buildings
- 66. IoT-Based Smart Waste Segregator Using AI
- 67. Predictive Maintenance for Smart Meters Using ML
- 68. AI-Based Noise Pollution Monitor
- 69. Real-Time Disaster Alert System Using Social Media NLP
- 70. AI-Powered Smart Streetlight Controller

☐ Science & Engineering

- 71. Earthquake Damage Prediction Using Al
- 72. AI-Powered Soil Quality Analysis System
- 73. Solar Power Output Forecasting Using CNN
- 74. Seismic Activity Forecasting Using ML
- 75. AI-Driven Renewable Energy Load Prediction
- 76. Climate Change Pattern Analysis Using ML
- 77. Wastewater Treatment Process Optimization Using Al

- 78. Smart Irrigation System Using AI and Weather Forecast
- 79. River Water Quality Predictor
- 80. Geological Image Classification Using CNN

Education & Career

- 81. Student Performance Prediction Using Academic History
- 82. Career Recommendation System Based on Skill Assessment
- 83. Dropout Prediction System for Online Learning Platforms
- 84. AI-Based Classroom Feedback Analysis
- 85. Automatic Lecture Note Summarizer Using NLP
- 86. Plagiarism Detection Using Deep Learning
- 87. Personalized Learning Path Recommendation System
- 88. Online Exam Proctoring Using Face and Eye Tracking
- 89. Essay Similarity Checker Using BERT
- 90. Resume Builder with Real-Time Suggestions

Cybersecurity

- 91. Network Intrusion Detection Using Machine Learning
- 92. Phishing Website Detection Using URL Analysis
- 93. AI-Based Malware Classification System
- 94. User Behavior Analysis for Insider Threat Detection
- 95. Botnet Traffic Detection Using Deep Learning
- 96. Secure Login System Using Facial Biometrics

97. Rea	al-Time Ransomware Detection
98. Soc	cial Engineering Attack Prevention Using ML
99. AI-Based Email Spoofing Detection	
100.	Cyberbullying Detection in Chat and Forums

\$\overline{\pi}\$ E-Commerce & Retail

101.	Dynamic Pricing System Using ML
102.	Product Recommendation Engine for Online Stores
103.	Customer Lifetime Value Prediction
104.	Inventory Demand Forecasting Using Deep Learning
105.	Voice-Powered Shopping Assistant Using NLP
106.	Personalized Discount Predictor Using ML
107.	Cart Abandonment Prediction System
108.	Visual Search for Fashion Items
109.	Review Sentiment Analyzer for Products
110.	AI-Based Product Description Generator

Automotive & Transportation

111.	Autonomous Lane Detection Using Deep Learning
112.	Accident Severity Prediction System
113.	Smart Parking Finder Using Computer Vision
114.	Vehicle Type Recognition in Toll Systems
115.	Al-Based Route Optimization System

116.	Driver Behavior Monitoring System
117.	Fuel Efficiency Predictor
118.	Traffic Violation Detection Using CCTV
119.	Vehicle Counting System for Highways
120.	Smart EV Charging Station Recommender

(3) Gaming & Entertainment

121.	Al-Based Game Difficulty Adjuster Based on Player Behavior
122.	Facial Emotion-Driven Game Reactions
123.	Music Genre Classification Using Audio Features
124.	AI-Powered Game Character Emotion Generation
125.	Deepfake Video Detection in Streaming Content
126.	Real-Time Voice Changer with Emotion Effects
127.	Anime Character Detection Using YOLO
128.	Automated Game Highlights Extraction
129.	Movie Success Prediction Using Historical Data
130.	Music Recommendation System Based on Mood

• Image Processing

131.	Image Colorization Using GANs
132.	Image Super Resolution with SRCNN
133.	Style Transfer Between Images Using DL
134.	Background Removal from Portrait Images

135.	Image Caption Generator Using CNN + LSTM
136.	Face Swapping App Using Deep Learning
137.	Medical Image Segmentation for Tumors
138.	Supervised Image Denoising Using Autoencoders
139.	Optical Illusion Detection Using ML
140.	Shadow Detection in Aerial Images

♀ Miscellaneous Projects

141.	Smart Voting System Using Face Recognition + OTP
142.	Resume Scanner for HRs Using ML
143.	Pet Breed Identifier from Images
144.	Automatic Number Plate Recognition System
145.	Real-Time Translator App for Sign Language
146.	AI-Powered Food Calorie Estimator from Image
147.	Human Pose Estimation for Fitness Monitoring
148.	Real-Time Firearm Detection in Surveillance
149.	Fashion Style Classifier (Casual, Formal, etc.)
150.	Plant Growth Stage Classification Using AI