

50 Mini Projects (With Tech Stacks)

1. Web Development Projects

1. **To-Do List App** – HTML, CSS, JavaScript
 2. **Weather App** – JavaScript + OpenWeather API
 3. **Blog Website** – React.js, Node.js
 4. **E-commerce Cart** – MERN Stack
 5. **Portfolio Website** – HTML, CSS
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2. Python Projects

6. **Quiz Game** – Python
 7. **URL Shortener** – Flask / Django
 8. **Chatbot** – NLTK, Python
 9. **Text Editor** – Tkinter (Python GUI)
 10. **Password Manager** – Python (File Handling)
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3. AI / ML Projects

11. **Spam Detector** – NLP, Python
 12. **Fake News Classifier** – Python, Sklearn
 13. **Handwritten Digit Recognition** – MNIST, Keras
 14. **Stock Price Predictor** – LSTM, Python
 15. **Face Detection App** – OpenCV, Python
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4. Java Projects

16. **Library Management System** – Java Swing
 17. **Snake Game** – JavaFX
 18. **ATM Simulator** – Java (OOP Concepts)
 19. **Chat Application** – Java (Socket Programming)
 20. **Student Report Card System** – Java
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5. Mobile App Projects (Android / Flutter)

- 21. **BMI Calculator App** – Flutter
 - 22. **Notes App** – Android Studio (Java/Kotlin)
 - 23. **Alarm Clock App** – Kotlin
 - 24. **Expense Tracker** – Flutter + Firebase
 - 25. **Quiz App** – Flutter
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6. 🎮 Game Development Projects

- 26. **Tic-Tac-Toe** – Python / JavaScript
 - 27. **Flappy Bird Clone** – Unity / Pygame
 - 28. **Ping Pong Game** – JavaScript
 - 29. **2D Platformer Game** – Godot Engine
 - 30. **Sudoku Solver** – Python
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7. 🏠 IoT & Hardware Projects

- 31. **Smart Home Automation** – Arduino
 - 32. **Voice-Controlled Lights** – Raspberry Pi
 - 33. **Obstacle Avoiding Robot** – Arduino
 - 34. **Temperature Monitoring System** – IoT Sensors
 - 35. **RFID-Based Attendance System** – Arduino
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8. 🔗 Blockchain Projects

- 36. **Simple Blockchain** – Python
 - 37. **Crypto Wallet App** – Solidity
 - 38. **NFT Marketplace Demo** – Web3.js
 - 39. **Smart Contract Voting System** – Solidity
 - 40. **Decentralized File Storage** – IPFS
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9. ☁️ Cloud & DevOps Projects

- 41. **Deploy a Website on AWS** – EC2, S3
- 42. **Dockerized Todo App** – Docker
- 43. **CI/CD Pipeline for a Web App** – GitHub Actions

44. **Serverless Chatbot** – AWS Lambda

45. **Load Balancer Simulation** – NGINX / AWS

10. **Open Source & API Projects**

46. **COVID-19 Tracker** – REST API + Frontend

47. **GitHub Profile Analyzer** – GitHub API

48. **Movie Recommendation System** – TMDB API + ML

49. **News Aggregator** – Web Scraping + Python

50. **Automated Email Sender** – Python + SMTP