



BRAINWAVE AI

Learn AI. Build AI. Lead AI.

BRAINWAVE AI PROJECTS

BUILD • ANALYZE • INNOVATE • AUTOMATE

50+ Project Ideas | Real-World Datasets | Step-by-Step Guidance
Tools | Source Code | GitHub Ready



**PRACTICAL PROJECTS
FOR REAL-WORLD IMPACT**



Data
Analytics



Machine
Learning



Deep
Learning



NLP



Computer
Vision



Agentic AI



RAG & LLM



Vector
Databases



Time Series
Forecasting



AI
Automation



REAL WORLD
PROJECTS



DATASETS &
RESOURCES



GITHUB
READY



DETAILED
EXPLANATIONS



SKILLS FOR
THE FUTURE



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Brainwave AI - Project Categories

Students can develop projects in the following areas and upload completed projects to GitHub as part of their practical portfolio.

1. Data Analytics Projects

Description: Analyze raw data to discover patterns, trends, relationships, and useful business insights.

- ❖ Sales Data Analysis
- ❖ Retail Store Analysis
- ❖ Customer Purchase Analysis
- ❖ E-Commerce Order Analysis
- ❖ HR Analytics
- ❖ Employee Salary Analysis
- ❖ Employee Attendance Analysis
- ❖ Marketing Campaign Analysis
- ❖ Financial Data Analysis
- ❖ Expense Analysis
- ❖ Profitability Analysis
- ❖ Product Performance Analysis
- ❖ Regional Sales Analysis
- ❖ Customer Behaviour Analysis
- ❖ Inventory Analysis
- ❖ Supplier Performance Analysis
- ❖ Website Traffic Analysis
- ❖ Social Media Analytics
- ❖ Healthcare Data Analysis
- ❖ Hospital Patient Analysis
- ❖ Banking Transaction Analysis
- ❖ Credit Card Spending Analysis
- ❖ Student Performance Analysis
- ❖ School Attendance Analysis
- ❖ College Admission Analysis
- ❖ Hotel Booking Analysis
- ❖ Restaurant Sales Analysis
- ❖ Telecom Customer Analysis
- ❖ Logistics Data Analysis
- ❖ Transportation Data Analysis
- ❖ Real Estate Data Analysis
- ❖ Tourism Data Analysis

- ❖ Mobile App Usage Analysis
- ❖ Customer Satisfaction Analysis
- ❖ Product Return Analysis
- ❖ Online Shopping Behaviour Analysis
- ❖ Customer Retention Analysis
- ❖ Customer Lifetime Value Analysis
- ❖ RFM Analysis
- ❖ Complete Business Analytics Project

2. Statistics Projects

Description: Apply statistical concepts to summarize data, test hypotheses, study relationships, and make evidence-based decisions.

- ❖ Mean, Median and Mode Analysis
- ❖ Range Analysis
- ❖ Variance Analysis
- ❖ Standard Deviation Analysis
- ❖ Quartile Analysis
- ❖ Percentile Analysis
- ❖ Frequency Distribution
- ❖ Histogram Analysis
- ❖ Probability Analysis
- ❖ Conditional Probability Project
- ❖ Normal Distribution Analysis
- ❖ Binomial Distribution Analysis
- ❖ Poisson Distribution Analysis
- ❖ Sampling Analysis
- ❖ Sampling Distribution Project
- ❖ Confidence Interval Analysis
- ❖ Z-Test
- ❖ One-Sample T-Test
- ❖ Independent T-Test
- ❖ Paired T-Test
- ❖ Chi-Square Test
- ❖ One-Way ANOVA
- ❖ Two-Way ANOVA
- ❖ Pearson Correlation
- ❖ Spearman Correlation
- ❖ Covariance Analysis
- ❖ Simple Linear Regression
- ❖ Multiple Linear Regression

- ❖ Outlier Detection
- ❖ Statistical Quality Control
- ❖ A/B Testing
- ❖ Survey Data Analysis
- ❖ Experimental Data Analysis
- ❖ Clinical Data Statistical Analysis
- ❖ Educational Data Statistical Analysis
- ❖ Business Decision Analysis
- ❖ Hypothesis Testing Capstone
- ❖ Statistical Relationship Analysis
- ❖ Probability Simulation Project
- ❖ Complete Statistical Analysis Project

3. Power BI Projects

Description: Build interactive dashboards and reports using Power Query, DAX, data modelling, visualizations, and business KPIs.

- ❖ Sales Dashboard
- ❖ Retail Dashboard
- ❖ HR Dashboard
- ❖ Finance Dashboard
- ❖ Marketing Dashboard
- ❖ Customer Dashboard
- ❖ Student Performance Dashboard
- ❖ Attendance Dashboard
- ❖ Inventory Dashboard
- ❖ Procurement Dashboard
- ❖ Supplier Dashboard
- ❖ E-Commerce Dashboard
- ❖ Banking Dashboard
- ❖ Loan Analysis Dashboard
- ❖ Insurance Dashboard
- ❖ Healthcare Dashboard
- ❖ Hospital Management Dashboard
- ❖ Hotel Management Dashboard
- ❖ Restaurant Dashboard
- ❖ Real Estate Dashboard
- ❖ Project Management Dashboard
- ❖ Employee Performance Dashboard
- ❖ Recruitment Dashboard
- ❖ Customer Churn Dashboard

- ❖ Product Performance Dashboard
- ❖ Regional Sales Dashboard
- ❖ Revenue Dashboard
- ❖ Profit and Loss Dashboard
- ❖ Expense Dashboard
- ❖ Social Media Dashboard
- ❖ Website Analytics Dashboard
- ❖ Logistics Dashboard
- ❖ Supply Chain Dashboard
- ❖ Executive KPI Dashboard
- ❖ CEO Dashboard
- ❖ Drill-Through Dashboard
- ❖ DAX-Based Dashboard
- ❖ Multi-Page Business Dashboard
- ❖ Forecast Dashboard
- ❖ Power BI Capstone Project

4. Time Series Analysis Projects

Description: Analyze time-based data and develop forecasting models for trends, seasonality, future demand, and business planning.

- ❖ Daily Sales Forecasting
- ❖ Monthly Sales Forecasting
- ❖ Revenue Forecasting
- ❖ Product Demand Forecasting
- ❖ Inventory Demand Forecasting
- ❖ Stock Price Analysis
- ❖ Cryptocurrency Price Analysis
- ❖ Temperature Forecasting
- ❖ Rainfall Forecasting
- ❖ Weather Forecasting
- ❖ Electricity Consumption Forecasting
- ❖ Energy Demand Forecasting
- ❖ Website Traffic Forecasting
- ❖ Call Volume Forecasting
- ❖ Passenger Traffic Forecasting
- ❖ Hotel Booking Forecasting
- ❖ Tourism Demand Forecasting
- ❖ Retail Demand Forecasting
- ❖ Customer Visits Forecasting
- ❖ Production Forecasting

- ❖ Moving Average Forecasting
- ❖ Weighted Moving Average
- ❖ Exponential Smoothing
- ❖ Holt Trend Model
- ❖ Holt-Winters Model
- ❖ AR Model
- ❖ MA Model
- ❖ ARMA Model
- ❖ ARIMA Model
- ❖ SARIMA Model
- ❖ Trend Decomposition
- ❖ Seasonality Detection
- ❖ ACF Analysis
- ❖ PACF Analysis
- ❖ Stationarity Testing
- ❖ ADF Test Project
- ❖ Time-Series Anomaly Detection
- ❖ LSTM Forecasting
- ❖ Multi-Variable Time-Series Forecasting
- ❖ Time-Series Capstone Project

5. Machine Learning Projects

Description: Develop predictive and intelligent systems using supervised, unsupervised, and ensemble machine learning techniques.

- ❖ House Price Prediction
- ❖ Car Price Prediction
- ❖ Salary Prediction
- ❖ Insurance Cost Prediction
- ❖ Sales Prediction
- ❖ Student Score Prediction
- ❖ Rent Prediction
- ❖ Medical Cost Prediction
- ❖ Loan Approval Prediction
- ❖ Credit Risk Prediction
- ❖ Customer Churn Prediction
- ❖ Employee Attrition Prediction
- ❖ Disease Prediction
- ❖ Diabetes Prediction
- ❖ Heart Disease Prediction
- ❖ Fraud Detection

- ❖ Spam Detection
- ❖ Customer Response Prediction
- ❖ Income Classification
- ❖ Student Pass/Fail Prediction
- ❖ Customer Segmentation
- ❖ Market Segmentation
- ❖ Product Segmentation
- ❖ Recommendation System
- ❖ Movie Recommendation System
- ❖ Product Recommendation System
- ❖ Crop Recommendation System
- ❖ Predictive Maintenance
- ❖ Lead Scoring System
- ❖ Credit Card Default Prediction
- ❖ Bank Customer Classification
- ❖ Telecom Churn Prediction
- ❖ Insurance Claim Prediction
- ❖ Employee Promotion Prediction
- ❖ Customer Purchase Prediction
- ❖ Feature Selection Project
- ❖ Hyperparameter Tuning Project
- ❖ Model Comparison Project
- ❖ End-to-End ML Deployment
- ❖ Machine Learning Capstone

6. Deep Learning Projects

Description: Build neural network-based solutions for image, text, audio, sequence, and prediction problems.

- ❖ ANN Classification
- ❖ ANN Regression
- ❖ Customer Churn using ANN
- ❖ Disease Prediction using ANN
- ❖ Student Performance using ANN
- ❖ Handwritten Digit Recognition
- ❖ Fashion Image Classification
- ❖ Cat and Dog Classification
- ❖ Plant Disease Classification
- ❖ Fruit Classification
- ❖ Flower Classification
- ❖ Traffic Sign Recognition

- ❖ Facial Expression Recognition
- ❖ Medical Image Classification
- ❖ Waste Classification
- ❖ Defect Detection
- ❖ Pneumonia Detection
- ❖ Skin Disease Image Classification
- ❖ RNN Text Classification
- ❖ RNN Sequence Prediction
- ❖ LSTM Sentiment Analysis
- ❖ LSTM Sales Forecasting
- ❖ LSTM Stock Forecasting
- ❖ GRU Sequence Prediction
- ❖ Transfer Learning Project
- ❖ VGG-Based Classification
- ❖ ResNet Classification
- ❖ MobileNet Classification
- ❖ Autoencoder Project
- ❖ Image Denoising
- ❖ Anomaly Detection using Autoencoder
- ❖ CNN-LSTM Project
- ❖ Deep Learning Recommendation System
- ❖ Transformer Classification
- ❖ Audio Classification
- ❖ Speech Emotion Recognition
- ❖ Image Captioning
- ❖ Deep Learning Deployment
- ❖ Multi-Modal Deep Learning Project
- ❖ Deep Learning Capstone

7. Natural Language Processing Projects

Description: Develop applications that process, understand, classify, search, summarize, and generate human language.

- ❖ Text Cleaning Project
- ❖ Tokenization Project
- ❖ Stopword Removal
- ❖ Stemming Project
- ❖ Lemmatization Project
- ❖ Word Frequency Analysis
- ❖ Keyword Extraction
- ❖ Word Cloud Generator

- ❖ Language Detection
- ❖ Text Similarity
- ❖ Sentiment Analysis
- ❖ Product Review Analysis
- ❖ Customer Feedback Analysis
- ❖ Social Media Sentiment Analysis
- ❖ Spam Message Detection
- ❖ Email Classification
- ❖ Fake News Detection
- ❖ News Classification
- ❖ Resume Classification
- ❖ Resume Matching
- ❖ Topic Modelling
- ❖ Named Entity Recognition
- ❖ Intent Classification
- ❖ FAQ Classification
- ❖ Text Summarization
- ❖ Question Answering
- ❖ Document Search
- ❖ Semantic Search
- ❖ NLP Chatbot
- ❖ Customer Support Chatbot
- ❖ BERT Sentiment Analysis
- ❖ Transformer Text Classification
- ❖ Text Recommendation System
- ❖ Grammar Analysis Application
- ❖ Plagiarism Detection
- ❖ Document Similarity System
- ❖ Email Intent Detection
- ❖ Research Paper Classification
- ❖ Multilingual NLP Project
- ❖ NLP Capstone Project

8. Computer Vision Projects

Description: Create intelligent systems that understand images and videos for recognition, detection, tracking, and automation.

- ❖ Image Reading Application
- ❖ Image Resizing Tool
- ❖ Image Cropping Tool
- ❖ Image Rotation Application

- ❖ Grayscale Conversion
- ❖ Edge Detection
- ❖ Thresholding
- ❖ Contour Detection
- ❖ Color Detection
- ❖ Image Filtering
- ❖ Face Detection
- ❖ Face Recognition
- ❖ Attendance using Face Recognition
- ❖ Object Detection
- ❖ Vehicle Detection
- ❖ Pedestrian Detection
- ❖ Number Plate Detection
- ❖ Number Plate Recognition
- ❖ Traffic Sign Detection
- ❖ Gesture Recognition
- ❖ Hand Tracking
- ❖ Human Pose Detection
- ❖ Emotion Recognition
- ❖ Plant Disease Detection
- ❖ Fruit Detection
- ❖ Defect Detection
- ❖ Medical Image Analysis
- ❖ Image Segmentation
- ❖ Object Tracking
- ❖ CCTV Analytics
- ❖ People Counting
- ❖ Parking Space Detection
- ❖ Fire and Smoke Detection
- ❖ Helmet Detection
- ❖ Safety Equipment Detection
- ❖ Deepfake Image Detection
- ❖ Document Image Processing
- ❖ OCR-Based Application
- ❖ Real-Time YOLO Detection
- ❖ Computer Vision Capstone

9. Prompt Engineering Projects

Description: Design and optimize prompts to obtain accurate, structured, creative, and task-specific results from AI models.

- ❖ Basic Prompt Generator
- ❖ Role-Based Prompt Project
- ❖ Zero-Shot Prompting Project
- ❖ Few-Shot Prompting Project
- ❖ Structured Output Prompting
- ❖ Education Prompt Library
- ❖ Marketing Prompt Library
- ❖ Sales Prompt Library
- ❖ HR Prompt Library
- ❖ Coding Prompt Library
- ❖ Data Analysis Prompt Library
- ❖ Image Generation Prompt Library
- ❖ Social Media Prompt Generator
- ❖ Email Prompt Generator
- ❖ Blog Prompt Generator
- ❖ Resume Prompt Generator
- ❖ Interview Prompt Generator
- ❖ Lesson Plan Prompt Generator
- ❖ Quiz Prompt Generator
- ❖ Research Prompt Generator
- ❖ Prompt Evaluation System
- ❖ Prompt Comparison Tool
- ❖ Prompt Optimization Application
- ❖ Prompt Template Manager
- ❖ Prompt Chaining Project
- ❖ Context-Aware Prompting
- ❖ Multi-Step Prompt Workflow
- ❖ Prompt Guardrail Project
- ❖ Domain-Specific Prompt Assistant
- ❖ Prompt Engineering Capstone

10. Generative AI Projects

Description: Create applications that generate original text, images, summaries, conversations, educational material, and other digital content.

- ❖ AI Text Generator
- ❖ AI Story Generator
- ❖ AI Blog Generator
- ❖ AI Email Generator
- ❖ AI Caption Generator
- ❖ AI Advertisement Generator
- ❖ AI Product Description Generator
- ❖ AI Resume Generator
- ❖ AI Cover Letter Generator
- ❖ AI Question Generator
- ❖ AI Quiz Generator
- ❖ AI Lesson Plan Generator
- ❖ AI Worksheet Generator
- ❖ AI Assignment Generator
- ❖ AI Notes Generator
- ❖ AI Teacher Assistant
- ❖ AI Student Tutor
- ❖ AI Research Assistant
- ❖ AI Business Assistant
- ❖ AI Customer Support Assistant
- ❖ AI Content Studio
- ❖ AI Social Media Assistant
- ❖ AI Presentation Generator
- ❖ AI Report Generator
- ❖ AI Document Summarizer
- ❖ AI Meeting Summarizer
- ❖ AI Image Generator
- ❖ Text-to-Image Application
- ❖ Image Caption Generator
- ❖ Speech-to-Text AI Application
- ❖ Text-to-Speech Application
- ❖ Voice AI Assistant
- ❖ Multimodal AI Assistant
- ❖ AI Document Analyzer
- ❖ Generative AI Search Assistant
- ❖ AI Code Assistant
- ❖ AI SQL Assistant
- ❖ AI Data Analysis Assistant
- ❖ Generative AI Web Application
- ❖ Generative AI Capstone

11. Large Language Model Projects

Description: Develop intelligent applications powered by LLMs for conversation, summarization, extraction, reasoning, and knowledge assistance.

- ❖ LLM Chatbot
- ❖ Question Answering System
- ❖ Document Summarizer
- ❖ Article Summarizer
- ❖ Research Paper Summarizer
- ❖ Email Assistant
- ❖ Writing Assistant
- ❖ Coding Assistant
- ❖ SQL Query Generator
- ❖ Natural Language to SQL
- ❖ Resume Analyzer
- ❖ Interview Assistant
- ❖ Educational Tutor
- ❖ Teacher Assistant
- ❖ Customer Support Assistant
- ❖ Business Knowledge Assistant
- ❖ Legal Document Assistant
- ❖ Financial Document Assistant
- ❖ Research Assistant
- ❖ Content Creation Assistant
- ❖ Meeting Notes Assistant
- ❖ Information Extraction System
- ❖ Structured Data Extraction
- ❖ LLM Classification Application
- ❖ LLM Sentiment Analysis
- ❖ Multilingual LLM Assistant
- ❖ LLM-Based Search System
- ❖ LLM API Application
- ❖ LLM Evaluation Project
- ❖ LLM Capstone Project

12. RAG Projects

Description: Combine LLMs with external documents, databases, and knowledge sources to provide grounded and context-aware answers.

- ❖ Chat with PDF
- ❖ Chat with Multiple PDFs
- ❖ Book Question-Answering
- ❖ Research Paper Assistant
- ❖ College Information Assistant
- ❖ School Information Assistant
- ❖ Company Knowledge Assistant
- ❖ Employee Policy Assistant
- ❖ HR Policy Assistant
- ❖ Product Knowledge Assistant
- ❖ Customer Support Knowledge Base
- ❖ Legal Document Assistant
- ❖ Financial Report Assistant
- ❖ Medical Document Search Assistant
- ❖ Technical Manual Assistant
- ❖ Course Material Assistant
- ❖ Student Notes Assistant
- ❖ FAQ RAG Chatbot
- ❖ Website Knowledge Chatbot
- ❖ Research Literature Assistant
- ❖ Multi-Document Search System
- ❖ Semantic Retrieval System
- ❖ RAG with Metadata Filtering
- ❖ RAG with Conversation Memory
- ❖ RAG Evaluation Project
- ❖ Hybrid Search RAG
- ❖ Multilingual RAG
- ❖ RAG with Images and Text
- ❖ Enterprise RAG Assistant
- ❖ RAG Capstone Project

13. Vector Database Projects

Description: Store embeddings and perform semantic retrieval for search, recommendation, RAG, and intelligent knowledge systems.

- ❖ Semantic Document Search
- ❖ PDF Semantic Search
- ❖ Product Semantic Search
- ❖ FAQ Search System
- ❖ Research Paper Search
- ❖ Resume Similarity Search

- ❖ Job Matching System
- ❖ Course Recommendation Search
- ❖ Customer Query Search
- ❖ Knowledge Base Retrieval
- ❖ Embedding Similarity Project
- ❖ Image Embedding Search
- ❖ Text Embedding Search
- ❖ Multi-Document Vector Search
- ❖ Vector-Based Recommendation System
- ❖ Chroma Vector Database Project
- ❖ FAISS Search Project
- ❖ Pinecone Project
- ❖ Weaviate Project
- ❖ Vector Database Capstone

14. Agentic AI Projects

Description: Build AI systems that can plan, use tools, access information, make decisions, and complete multi-step tasks.

- ❖ Simple Task Agent
- ❖ Calculator Agent
- ❖ Search Agent
- ❖ File Reading Agent
- ❖ PDF Agent
- ❖ Research Agent
- ❖ Data Analysis Agent
- ❖ Report Generation Agent
- ❖ Email Drafting Agent
- ❖ Customer Support Agent
- ❖ Sales Agent
- ❖ Marketing Agent
- ❖ Lead Qualification Agent
- ❖ HR Agent
- ❖ Recruitment Agent
- ❖ Resume Screening Agent
- ❖ Teacher Assistant Agent
- ❖ Student Tutor Agent
- ❖ Research Paper Agent
- ❖ Financial Analysis Agent
- ❖ Business Intelligence Agent
- ❖ Travel Planning Agent

- ❖ Meeting Preparation Agent
- ❖ Content Creation Agent
- ❖ Social Media Agent
- ❖ SQL Agent
- ❖ Python Coding Agent
- ❖ Web Research Agent
- ❖ RAG Agent
- ❖ Agent with Memory
- ❖ Agent with Tools
- ❖ Agent with Human Approval
- ❖ Workflow Automation Agent
- ❖ LangChain Agent
- ❖ LangGraph Agent
- ❖ CrewAI Agent
- ❖ Autonomous Task Agent
- ❖ Business Process Agent
- ❖ Personal Productivity Agent
- ❖ Agentic AI Capstone

15. Multi-Agent AI Projects

Description: Create coordinated teams of specialized AI agents that collaborate to solve complex tasks.

- ❖ Research Agent Team
- ❖ Writer and Editor Agent Team
- ❖ Sales Agent Team
- ❖ Marketing Agent Team
- ❖ Customer Support Agent Team
- ❖ Software Development Agent Team
- ❖ Data Analytics Agent Team
- ❖ Business Analysis Agent Team
- ❖ Education Agent Team
- ❖ Teacher-Student Multi-Agent System
- ❖ Recruitment Agent Team
- ❖ Financial Research Agent Team
- ❖ Travel Planning Agent Team
- ❖ Content Production Agent Team
- ❖ Social Media Agent Team
- ❖ Product Development Agent Team
- ❖ Market Research Agent Team
- ❖ Report Generation Agent Team

- ❖ Multi-Agent RAG System
- ❖ Multi-Agent Capstone Project

16. AI Automation Projects

Description: Combine AI, workflows, APIs, and agents to automate repetitive personal and business processes.

- ❖ Automated Email Drafting
- ❖ Automated Email Classification
- ❖ Customer Query Automation
- ❖ Lead Processing Automation
- ❖ Sales Follow-Up Automation
- ❖ Marketing Content Automation
- ❖ Social Media Posting Workflow
- ❖ Report Generation Automation
- ❖ Document Summarization Automation
- ❖ Invoice Processing Automation
- ❖ Resume Screening Automation
- ❖ Recruitment Workflow Automation
- ❖ Customer Feedback Automation
- ❖ Data Cleaning Automation
- ❖ Data Analysis Automation
- ❖ Dashboard Reporting Automation
- ❖ Meeting Summary Automation
- ❖ Research Automation
- ❖ Content Repurposing Automation
- ❖ AI Workflow Capstone

17. Git and GitHub Projects

Description: Learn professional version control, project documentation, collaboration, and portfolio presentation.

- ❖ Create First Repository
- ❖ Python Project Repository
- ❖ Data Analytics Repository
- ❖ Statistics Repository
- ❖ Power BI Portfolio Repository
- ❖ ML Project Repository
- ❖ DL Project Repository
- ❖ NLP Repository
- ❖ Computer Vision Repository

- ❖ Generative AI Repository
- ❖ RAG Repository
- ❖ Agentic AI Repository
- ❖ README Writing Project
- ❖ Git Branching Practice
- ❖ Git Merge Practice
- ❖ Pull Request Practice
- ❖ Issue Tracking Practice
- ❖ Version Release Practice
- ❖ GitHub Pages Portfolio
- ❖ Complete AI GitHub Portfolio

18. SQL Projects

Description: Learn to design databases, write SQL queries, manage tables, analyze data, join multiple datasets, and solve real-world business problems using relational databases.

- Student Database Management System
 - ❖ Employee Database Management System
 - ❖ Library Management Database
 - ❖ Hospital Management Database
 - ❖ School Management Database
 - ❖ College Admission Database
 - ❖ Customer Management Database
 - ❖ Sales Database Analysis
 - ❖ Retail Store Database
 - ❖ E-Commerce Database Project
 - ❖ Product Inventory Database
 - ❖ Banking Transaction Database
 - ❖ Loan Management Database
 - ❖ Hotel Booking Database
 - ❖ Restaurant Management Database
 - ❖ HR Database Analysis
 - ❖ Payroll Database Project
 - ❖ Customer Order Management System
 - ❖ Supplier Management Database
 - ❖ Warehouse Management Database
 - ❖ Stock Management Database
 - ❖ Expense Tracking Database
 - ❖ Financial Transaction Analysis
 - ❖ Healthcare Patient Database
 - ❖ Attendance Management Database

- ❖ Examination Result Database
- ❖ Course Registration System
- ❖ Online Shopping Database
- ❖ Vehicle Management Database
- ❖ Travel Booking Database
- ❖ CRM Database Project
- ❖ SQL Joins Practice Project
- ❖ Subquery-Based Analysis Project
- ❖ Aggregate Functions Project
- ❖ GROUP BY and HAVING Analysis
- ❖ Views and Virtual Tables Project
- ❖ Stored Procedure Project
- ❖ Trigger-Based Database Project
- ❖ SQL Data Cleaning Project
- ❖ SQL Reporting Project
- ❖ Sales Trend Analysis using SQL
- ❖ Customer Segmentation using SQL
- ❖ Customer Retention Analysis using SQL
- ❖ Product Performance Analysis using SQL
- ❖ Regional Sales Analysis using SQL
- ❖ Top Customers Analysis
- ❖ Monthly Revenue Analysis
- ❖ Employee Performance Analysis
- ❖ Inventory Movement Analysis
- ❖ Complete SQL Capstone Project

19. Capstone Projects

Description: *Integrate multiple technologies into a complete real-world solution suitable for demonstration, internship, interview, or portfolio use.*

- ❖ Sales Analytics and Forecasting Platform
- ❖ Customer Churn Prediction Dashboard
- ❖ Customer Segmentation and Recommendation System
- ❖ AI-Based Student Performance System
- ❖ AI-Based Admission Prediction System
- ❖ Smart Healthcare Analytics System
- ❖ E-Commerce Recommendation Platform
- ❖ Financial Risk Prediction System
- ❖ Social Media Analytics Platform
- ❖ HR Analytics and Attrition System
- ❖ Face Recognition Attendance System

- ❖ Smart CCTV Analytics System
- ❖ Plant Disease Detection System
- ❖ Deepfake Detection System
- ❖ AI Teacher Assistant
- ❖ AI Student Tutor
- ❖ RAG-Based Educational Assistant
- ❖ Research Paper Assistant
- ❖ Enterprise Knowledge Assistant
- ❖ AI Customer Support Platform
- ❖ AI Resume Screening Platform
- ❖ AI Recruitment Assistant
- ❖ AI Content Creation Studio
- ❖ AI Marketing Assistant
- ❖ AI Sales Assistant
- ❖ AI Business Analytics Agent
- ❖ Multi-Agent Research Platform
- ❖ Agentic AI Workflow System
- ❖ AI Automation Platform
- ❖ End-to-End AI Solution Capstone

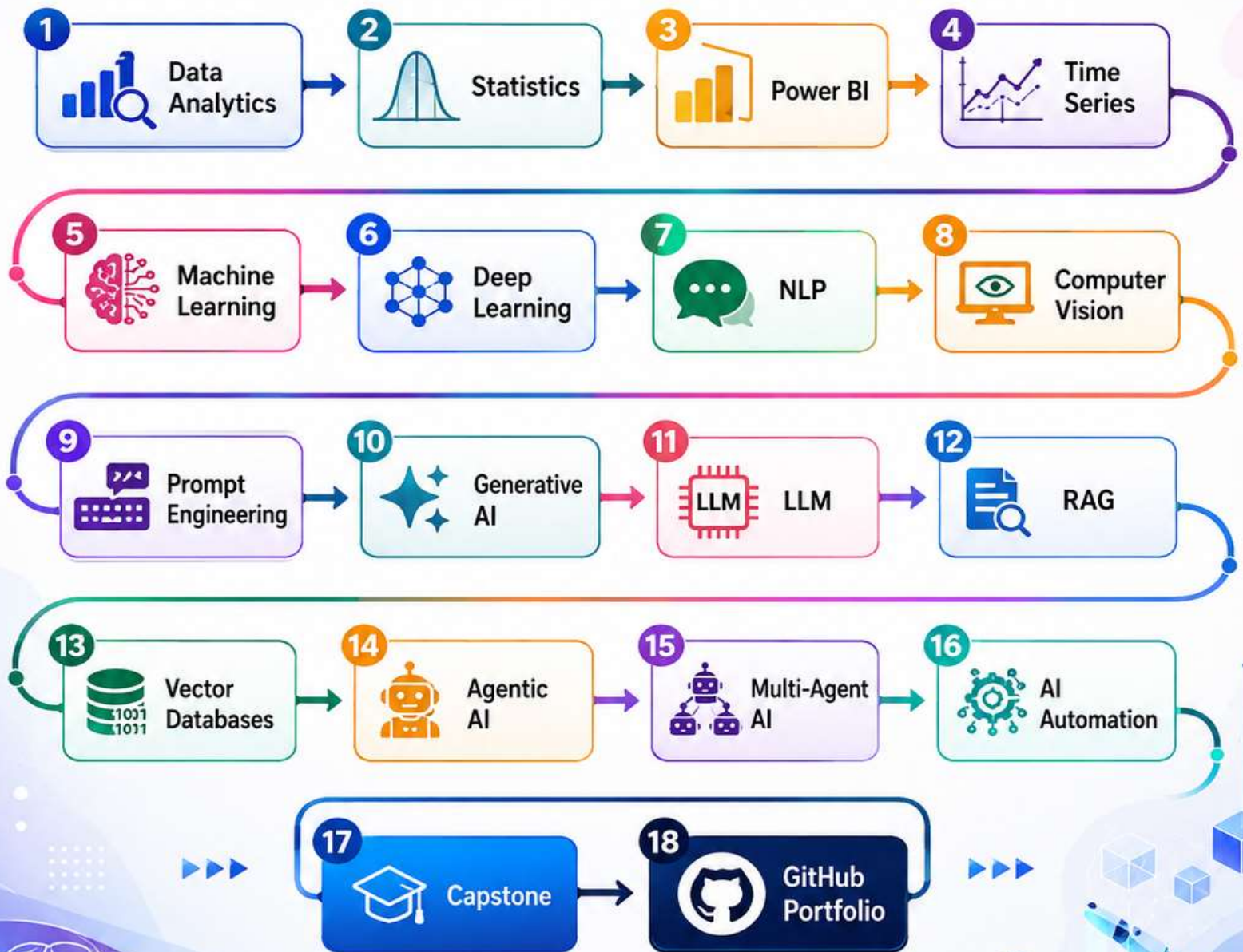


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BRAINWAVE AI LEARNING PATH

From Data to Advanced AI Portfolio



Learn. Build. Innovate. Automate. Lead.

Build Real Skills. Create Real Impact.



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