



## **AI Internship Programs by Brainwave AI**

Brainwave AI offers structured, industry-oriented AI Internship Programs designed to suit learners at different stages—Foundation, Intermediate, and Advanced. All programs emphasize hands-on learning, real-world projects, expert mentorship, and career readiness, with official certification upon successful completion.

### **3-Month AI Internship (90 Days) – Advanced / Industry Level**

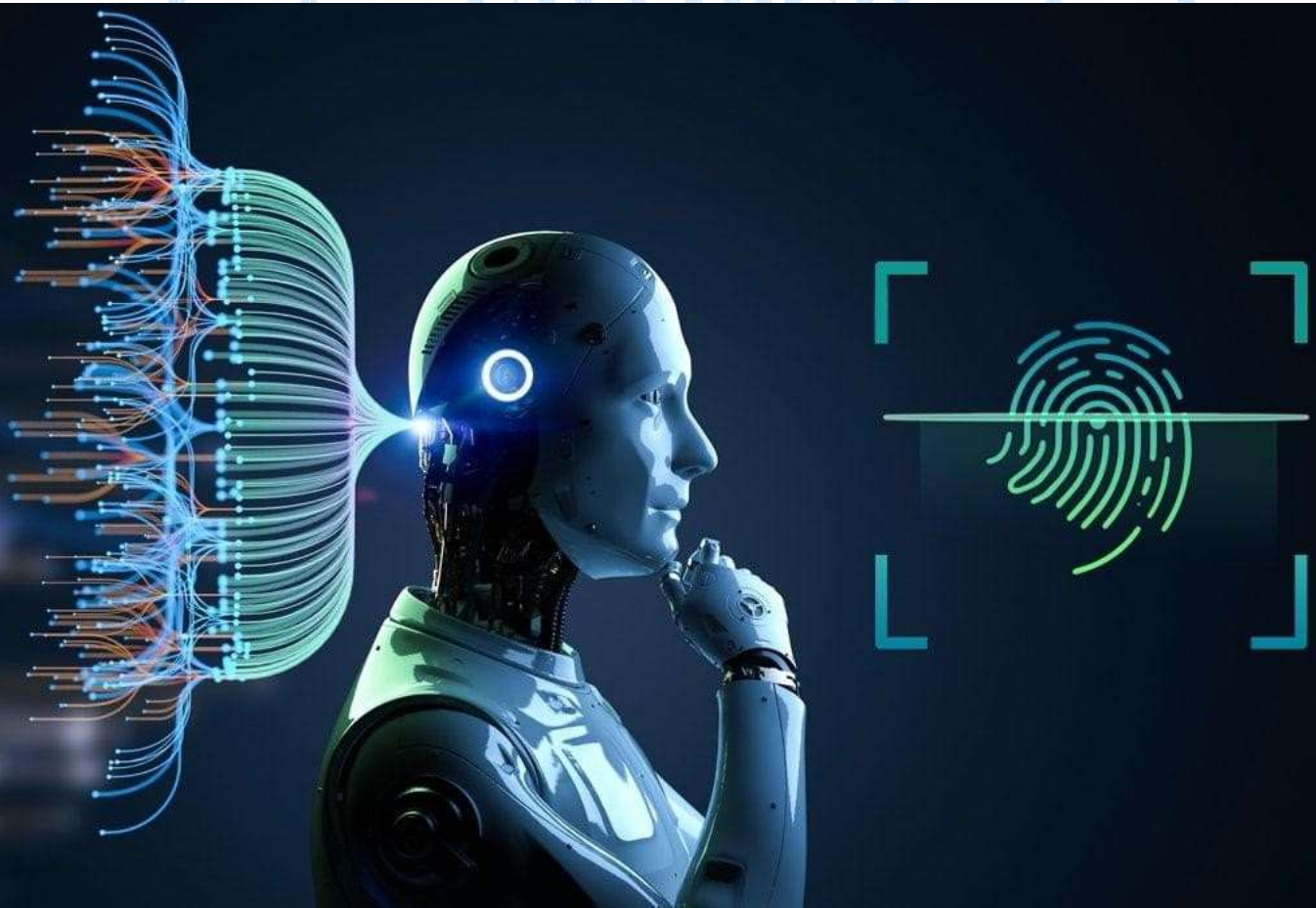
An intensive, in-depth internship focused on AI, Machine Learning, Deep Learning, NLP, Time Series Analysis, XAI, and MLOps. This program emphasizes advanced algorithms, model optimization, deployment using Streamlit, Docker, GitHub, and cloud basics, along with domain-based projects and a major industry-level capstone project. Interns receive comprehensive study material, continuous assessments, resume and LinkedIn optimization, and complete the program with a final presentation and defense.

## 45-Days AI Internship – Beginner to Intermediate

A structured program designed to build strong fundamentals and practical skills in Python for Data Science, statistics, EDA, feature engineering, supervised and unsupervised machine learning, with an introduction to deep learning and neural networks. The internship includes hands-on labs, real-world case studies, Streamlit app deployment, GitHub project publishing, and a major end-to-end project, concluding with documentation, viva, and certification.

## 1-Month AI Internship (30 Days) – Beginner / Foundation

A foundation-level internship introducing learners to AI, ML, and Data Science basics. The program covers Python fundamentals, data handling with Pandas and NumPy, data visualization, basic statistics, EDA, and introductory machine learning algorithms. Interns complete a dataset-based mini project, learn Git and GitHub basics, prepare an internship report, and conclude with a final assessment and Internship Completion Certificate.



## 3-Month AI Internship (90 Days)

The 3-Month AI Internship (90 Days) by Brainwave AI is an intensive, industry-oriented training and development program conducted by an ISO-certified company, designed to build strong foundations and practical expertise in Artificial Intelligence, Machine Learning, Deep Learning, NLP, Time Series Analysis, and MLOps. The program is delivered by highly qualified IT professionals with extensive industry and academic experience, focusing on hands-on coding, real-world datasets, domain-based projects, and industry best practices. By the end of the internship, participants will complete a major industry-level project, gain deployment and presentation experience, and receive professional guidance on resume and LinkedIn optimization, along with an official internship completion certificate from Brainwave AI.

**Level:** Beginner → Advanced (Industry-Ready)

**Daily Time:** 2 Hours

### Program List

- AI, ML, DL & Generative AI Overview
- Python for Data Science
- Data Engineering Basics
- EDA & Visualization
- Statistics & Hypothesis Testing
- Machine Learning (Supervised + Unsupervised)
- Advanced ML Algorithms
- Deep Learning
- NLP Fundamentals
- Time Series Analysis
- Model Optimization & Hyperparameter Tuning
- Explainable AI (XAI) Basics
- MLOps Fundamentals
- Git, GitHub & Version Control
- Docker Basics
- Streamlit / Web App Deployment

- Cloud Basics
- Domain-Based Projects (Healthcare / Finance / Retail)
- Research Paper / Technical Report Writing
- Final Major Industry Project
- Internship Presentation & Defense
- Resume + LinkedIn Optimization
- Certificate

## Coverage

- ❖ Advanced Python & Data Analytics
- ❖ Machine Learning & Deep Learning
- ❖ NLP & Time Series Basics
- ❖ MLOps Fundamentals
- ❖ Docker & Deployment
- ❖ Industry-Based Project

## Includes

- ✓ Internship Certificate
- ✓ Letter of Recommendation
- ✓ Industry Project
- ✓ Resume & LinkedIn Optimization

The top half of the page features a dark blue background with a glowing, futuristic digital tunnel. The letters 'AI' are prominently displayed in the center of the tunnel, rendered in a bright, glowing cyan color. The tunnel walls are composed of various geometric shapes and lines, creating a sense of depth and movement. The overall aesthetic is high-tech and modern.A solid red triangle pointing to the right, located on the left side of the page, partially overlapping the white background.

## 45-Days Internship Program

The 45-Days AI Internship Program is a structured Beginner to Intermediate level training designed to build strong fundamentals in Artificial Intelligence, Machine Learning, and practical data science skills. With 2 hours of daily guided learning, the program focuses on hands-on Python programming, data preprocessing, statistics, EDA, feature engineering, and core machine learning algorithms, along with an introduction to deep learning and neural networks. Interns gain real-world exposure through case studies, end-to-end major projects, Streamlit-based ML app deployment, and GitHub project publishing. The program concludes with documentation, final review-viva, and an official internship completion certificate, making participants industry-ready for entry-level AI and data roles.

Level: Beginner → Intermediate

**Daily Time:** 2 Hours

### Program List

- AI, ML & Industry Applications Overview
- Python Programming for Data Science

- Data Preprocessing & Cleaning
- Statistics & Probability for ML
- Exploratory Data Analysis (EDA)
- Feature Engineering Techniques
- Supervised Machine Learning Algorithms
- Unsupervised Learning (Clustering)
- Model Evaluation & Metrics
- Introduction to Deep Learning
- Basic Neural Networks
- Streamlit for ML App Deployment
- GitHub Project Deployment
- Real-World Case Study
- Major Project (End-to-End)
- Documentation & Report Writing
- Viva / Final Review
- Certificate

## **Includes**

- ✓ Internship Certificate
- ✓ Industry Project

## **1-Month Internship Program (30 Days)**

The 1-Month Internship Program (30 Days) is a Beginner/Foundation-level training designed to introduce students to the core concepts of Artificial Intelligence, Machine Learning, and Data Science. The program focuses on Python fundamentals for AI, data handling using Pandas and NumPy, data visualization with Matplotlib and Seaborn, and essential statistical concepts for analytics. Participants gain hands-on experience through exploratory data analysis, basic machine learning algorithms, and a dataset-based mini project, along with exposure to Git and GitHub fundamentals. The internship concludes with report preparation,

final assessment and presentation, and an official Internship Completion Certificate, helping learners build confidence and a strong foundation for advanced AI learning paths.

**Level:** Beginner / Foundation

**Daily Time:** 2 Hours

### Program List

- Introduction to AI, ML & Data Science
- Python Basics for AI
- Data Handling with Pandas & NumPy
- Data Visualization (Matplotlib & Seaborn)
- Basics of Statistics for Analytics
- Exploratory Data Analysis (EDA)
- Introduction to Machine Learning
- ML Algorithms
- Mini Project (Dataset-based)
- Git & GitHub Basics
- Internship Report Preparation
- Final Assessment & Presentation
- Certificate of Internship

### Includes

- ✓ Internship Certificate
- ✓ Industry Project

## AI, ML, DL & Generative AI Overview

Introduction to Artificial Intelligence, Machine Learning, Deep Learning, and Generative AI concepts, use cases, tools, and industry trends.

## **Python for Data Science**

Hands-on Python for data analysis using NumPy, Pandas, Matplotlib, Seaborn, and best coding practices.

## **Data Engineering Basics**

Fundamentals of data pipelines, data collection, preprocessing, ETL concepts, and structured data handling.

## **EDA & Visualization**

Deep exploratory data analysis techniques with advanced visualizations to uncover patterns, trends, and insights.

## **Statistics & Hypothesis Testing**

Core statistical concepts including probability, distributions, confidence intervals, and hypothesis testing for data-driven decisions.

## **Machine Learning (Supervised + Unsupervised)**

End-to-end ML workflow covering regression, classification, clustering, and model evaluation techniques.

## **Advanced ML Algorithms**

In-depth study of ensemble methods, boosting, bagging, dimensionality reduction, and advanced model selection.

## **Deep Learning**

Neural networks, CNNs, RNNs, LSTMs, and practical implementation using modern deep learning frameworks.

## **NLP Fundamentals**

Natural Language Processing basics including text preprocessing, embeddings, sentiment analysis, and language models.

## **Time Series Analysis**

Techniques for analyzing time-based data including trend analysis, seasonality, forecasting, and real-world applications.

## **Model Optimization & Hyperparameter Tuning**

Improving model performance using cross-validation, grid search, random search, and optimization strategies.

## **Explainable AI (XAI) Basics**

Understanding model interpretability, feature importance, SHAP, LIME, and ethical AI considerations.

## **MLOps Fundamentals**

Introduction to ML lifecycle management including model versioning, CI/CD, monitoring, and deployment practices.

## **Git, GitHub & Version Control**

Source code management using Git, GitHub workflows, collaboration, and project version tracking.

## **Docker Basics**

Containerization concepts, Docker images, containers, Dockerfiles, and basic deployment workflows.

## **Streamlit / Web App Deployment**

Building and deploying interactive ML web applications using Streamlit and Python.

## **Cloud Basics**

Overview of cloud computing concepts, services, deployment models, and AI workloads on cloud platforms.

## **Domain-Based Projects (Healthcare / Finance / Retail )**

Real-world mini projects focused on industry-specific datasets and problem statements.

## **Research Paper / Technical Report Writing**

Structured approach to writing technical reports, documentation, and research papers using standard formats.

## **Final Major Industry Project**

Capstone project involving problem definition, model building, deployment, and presentation.

## **Internship Presentation & Defense**

Formal project presentation, technical explanation, and evaluation by mentors.

## **Resume + LinkedIn Optimization**

Creating an industry-ready resume and optimizing LinkedIn profiles for AI and data roles.

## **Certificate**

Official internship completion certificate validating skills, projects, and practical training.

## **Why Internship at Brainwave AI?**

An internship at Brainwave AI offers a unique opportunity to learn Artificial Intelligence through a practical, industry-oriented, and mentor-guided approach. Brainwave AI focuses on transforming learners into job-ready professionals by combining strong fundamentals with hands-on lab work, real-world projects, and exposure to modern technologies such as Machine Learning, NLP, Generative AI, and Time Series Analytics. Unlike theoretical programs, Brainwave AI emphasizes learning by doing, providing offline lab-based training, structured internships, continuous assessment, and recognized certification suitable for academic and professional use. With experienced mentors, ethical AI practices, and career guidance, Brainwave AI ensures interns gain confidence, technical competence, and clarity for future careers in AI and data-driven domains.

## **Key Features of the Program**

- Industry-Oriented Curriculum covering AI, ML, Deep Learning, NLP, Time Series, XAI, and MLOps
- Training by an ISO-Certified Organization – Brainwave AI

- Expert Mentorship by highly qualified IT professionals with academic and industry experience
- Comprehensive Course Material with concise short notes for quick learning and revision
- Regular Tests & Practice Tests to assess understanding and track progress
- Hands-On Coding & Practical Assignments using real-world datasets
- Short Learning Videos & Curated YouTube Resources for concept clarity
- Well-Structured PPT Presentations for every module
- Books & Reference Material Written by the Mentor for deeper insights
- Domain-Based Mini Projects (Healthcare, Finance, Retail, etc.)
- Major Industry-Level Capstone Project with end-to-end implementation
- Deployment Exposure using Streamlit, Docker, GitHub, and basic cloud concepts
- Internship Presentation & Technical Defense to build confidence
- Resume & LinkedIn Profile Optimization for job readiness
- Official Internship Completion Certificate



### **Mentor: Bijay Chowdhury**

Bijay Chowdhury brings over 30 years of teaching and academic experience to the field of Artificial Intelligence and emerging technologies. As the Founder & Lead Mentor at Brainwave AI, he has dedicated his career to blending strong theoretical foundations with hands-on, lab-driven learning. He has published and written numerous research papers, contributed to theses and academic research, and authored multiple books on Artificial Intelligence and allied domains, making complex concepts accessible to students, educators, and professionals. His mentorship philosophy emphasizes ethical AI, real-world problem solving, project-based learning, and industry readiness, ensuring interns gain not only technical skills but also clarity, confidence, and long-term career direction in AI, Machine Learning, NLP, Generative AI, and Time Series Analytics.

### **Key Highlights**

- ❖ 30+ years of teaching & academic mentoring
- ❖ Extensive research publications (papers, thesis)
- ❖ Author of multiple AI-focused books
- ❖ Strong focus on practical labs, projects, and ethics

- ❖ Proven mentor for student internships and career growth

## **Paid Internship Training Program at Brainwave AI**

The Internship Training Program in Artificial Intelligence at Brainwave AI is a completely payment-based training program. This internship is not a free or stipend-based internship; it is a structured, skill-oriented training internship in which the candidate is required to pay the applicable internship fee. The fee covers professional classroom teaching, offline lab access, hands-on practical training, real-world projects, mentorship support, study materials, assessments, and certification. By enrolling and paying the fee, the candidate agrees to participate in a formal training internship designed to build strong AI skills, practical exposure, and academic/industry readiness, rather than an employment-based internship.

## **Comprehensive Learning Resources & Study Support**

Concise course material and notes will be provided by Brainwave AI to support structured learning, quick revision, and a clear understanding of all topics covered during the program. In addition to written notes, interns will receive practice exercises, regular tests and practice tests, short concept-explainer videos, curated YouTube learning links, and well-structured PPT presentations for each module. The learning resources are further enriched with reference books and study material written by the mentor, Bijay Chowdhury, ensuring strong conceptual clarity backed by real-world industry and academic experience. This blended approach helps interns learn effectively, revise faster, and apply concepts confidently in projects and assessments.

## **Mode of Training**

- ❖ Offline / Online / Hybrid (as applicable)
- ❖ Instructor-led sessions with hands-on practice

## **Eligibility**

- ❖ Students (UG / PG)
- ❖ Freshers & career switchers
- ❖ Basic programming knowledge (for 45/90 days)

## Learning Methodology

- ❖ Concept explanation + live coding
- ❖ Hands-on labs and assignments
- ❖ Case studies & real datasets
- ❖ Project-based learning approach

## Assessment & Evaluation

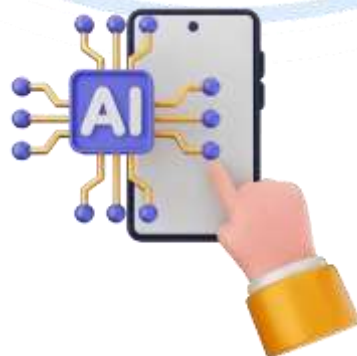
- ❖ Module-wise tests
- ❖ Practice tests & quizzes
- ❖ Project evaluation
- ❖ Final assessment & presentation

## Tools & Technologies Covered

- ❖ Python, NumPy, Pandas
- ❖ Matplotlib, Seaborn
- ❖ Scikit-learn
- ❖ Streamlit
- ❖ Git & GitHub
- ❖ Docker (for advanced program)

## Project Deliverables

- ❖ Mini project / Major project (as per duration)
- ❖ GitHub repository submission



- ❖ Project report (PDF)
- ❖ Final presentation (PPT)

## Certification Details

- ❖ Internship Completion Certificate
- ❖ Issued by Brainwave AI (ISO-Certified)
- ❖ Duration, project title, and mentor name mentioned

## Career & Placement Support

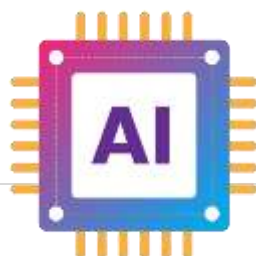
- ❖ Resume & LinkedIn optimization
- ❖ Interview preparation guidance
- ❖ Career roadmap after internship

## Mentorship & Support

- ❖ Guidance from experienced IT professionals
- ❖ Doubt-clearing sessions
- ❖ Continuous feedback on projects

## Learning Resources (Common for All)

- ❖ Course material & short notes
- ❖ PPTs & practice worksheets
- ❖ Short videos & curated YouTube links
- ❖ Reference books written by the mentor



**For Further Details, Contact:**



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