



SkillBuildEra

**SkillBuildEra**

# Project Timeline: One Project, One Week

Efficiently manage your project development cycle by dedicating a focused week to each core project.

## Day 1-2: Planning & Design

Define project scope, sketch out user interface designs, and plan database schemas and API endpoints. Create wireframes and mockups to visualize the final product.

1

2

## Day 3-4: Frontend Development

Build the user-facing part of the application using HTML, CSS, and JavaScript. Implement responsive design principles to ensure compatibility across various devices and screen sizes.

3

4

## Day 5: Backend Development

Set up the server, develop API endpoints for data exchange, and integrate with the chosen database. Focus on robust data handling and security protocols.

## Day 6: Testing & Debugging

Thoroughly test all functionalities, identify and resolve bugs, and ensure the application runs smoothly. Conduct user acceptance testing (UAT) to gather feedback.

5

## Day 7: Deployment & Review

Deploy the project to a live server, make it accessible to users, and gather initial feedback. Document the development process and plan for future iterations or enhancements.

# Internship Instructions

At SkillBuildera, we believe in learning by doing. During your internship, you will work on practical, real-world tasks that help you build strong technical and professional skills while showcasing your growth as a learner and future professional.

## Important Guidelines:

### 1 Official Start

Begin tasks only after your internship officially starts, as indicated in your Offer Letter email.

### 2 Domain Focus

Complete tasks exclusively within your selected domain, as specified in your offer letter.

### 3 Certificate Eligibility

A minimum of 4 completed tasks in your track is mandatory for the Internship Completion Certificate.

### 4 Learning Approach

This is a self-paced, learning-oriented internship with no live training; utilize your own resources.

### 5 Flexible Schedule

Manage your working hours flexibly, ensuring all assigned tasks are completed on time.



# intern instruction

- 1 Be on time and professional
- 2 Follow instructions and ask questions
- 3 Complete tasks responsibly
- 4 Respect rules and confidentiality
- 5 Communicate with your supervisor

# Data Science & Key Projects: A Practical Journey

Explore the transformative world of data science through five hands-on projects that solve real-world problems in India's digital landscape.





# What is Data Science?

Data science is the art and science of extracting meaningful insights from data using statistics, programming, and machine learning. It powers innovations across healthcare, entertainment, finance, and more, enabling data-driven decisions that transform businesses and society.

From predicting disease outbreaks to recommending your next favourite movie, data science is reshaping how we live and work in modern India.



# Project 1: Fake News Detection



## The Challenge

Tackles misinformation spreading online, crucial in today's digital India where news travels faster than verification.



## Technology Stack

Built using Python libraries like Pandas, scikit-learn, and TfidfVectorizer for text processing and analysis.



## The Model

PassiveAggressiveClassifier to classify news as real or fake with high accuracy and minimal training time.



## Real Impact

Helps social platforms and users verify news authenticity, protecting communities from harmful misinformation.



# Project 2: Chatbot for Tour & Travel

01

## AI-Powered Assistant

Guides tourists with instant travel information, bookings, and answers to frequently asked questions.

02

## NLP Technology

Built using natural language processing techniques and Python frameworks to understand user queries.

03

## 24/7 Support

Enhances customer experience by providing round-the-clock assistance for travellers exploring India.

04

## Smart Recommendations

Answers queries about Indian tourist destinations, suggests itineraries, and books accommodations seamlessly.





# Project 3: Disease Prediction System



## Data Collection

Gathers patient data including vital signs, medical history, and lifestyle factors from Indian health surveys.



## Machine Learning

Uses logistic regression and classification algorithms to identify disease patterns and risk factors.



## Early Detection

Predicts diseases like heart conditions, enabling early diagnosis and preventive healthcare interventions.



## Healthcare Impact

Supports doctors with data-driven insights, improving patient outcomes across India's healthcare system.



# Project 4: Movie Recommendation System



## Personalized Entertainment

Delivers personalized movie suggestions based on user preferences, viewing history, and ratings. This project implements both collaborative filtering and content-based filtering techniques.

### Collaborative Filtering

Recommends movies based on similar users' preferences and viewing patterns.

### Content-Based Filtering

Suggests movies with similar genres, actors, and themes to ones you've enjoyed.

Popular in streaming platforms like Netflix and Hotstar India, these systems dramatically improve user engagement and satisfaction.



## Project 5: Resume Analyzer

### Document Processing

Parses resumes in various formats (PDF, DOCX) and extracts key information using NLP techniques.

1

### Scoring Algorithm

Scores resumes against job requirements to shortlist the most qualified candidates efficiently.

3

2

### Keyword Extraction

Identifies relevant skills, experience, and qualifications matching job descriptions automatically.

4

### Hiring Efficiency

Saves time for recruiters and improves hiring quality for Indian startups and large enterprises alike.





# Your Data Science Journey Starts Now!

## Hands-On Learning

Embrace practical projects to master data science through real-world applications and challenges.

## Real Impact

Build solutions that solve actual problems faced by millions across India's growing digital ecosystem.

## Continuous Growth

Stay curious, keep learning, and contribute to India's data revolution with innovative thinking.