



SkillBuildEra

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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 Analysts & Their Impact: 5 Key Projects Uncovered

Exploring how skilled data professionals transform raw information into strategic business value through real-world projects



Who Are Data Analysts?

Data analysts are professionals who transform raw data into actionable insights that drive smarter business decisions across all industries.

They combine technical expertise with business acumen to uncover patterns, solve problems, and create value from information that would otherwise remain hidden.



Project 1: Sales Data Analysis

01

Objective

Identify sales trends, top-performing products, and revenue opportunities across regions

02

Approach

Cleaned and aggregated sales data by region, product category, and time period using Python and SQL

03

Insights

Discovered seasonal spikes in Q4, underperforming categories in specific regions, and high-value customer segments

04

Impact

Enabled targeted marketing campaigns and inventory optimisation, boosting overall revenue by 12%

12%

Revenue increase

Achieved through data-driven

5

Regions analysed

Comprehensive geographical coverage

200K

Transactions

Data points processed and analysed

Project 2: Attendance Data Analysis

Monitoring Workforce Patterns

Objective: Monitor employee attendance patterns and identify absenteeism trends across departments to improve workforce productivity.

Approach: Analysed attendance logs using time-series analysis and created heatmaps to visualise patterns by day of week, month, and department.

Key Insights: Highlighted departments with significantly high absentee rates on Mondays and specific seasonal patterns affecting attendance.

Business Impact: Informed targeted HR policies and flexible working arrangements, improving overall workforce productivity and employee satisfaction.



Monday Challenge

35% higher absenteeism on Mondays across three departments

Seasonal Trends

Identified flu season impact requiring contingency planning

Department Variations

Manufacturing showed different patterns than office staff

Project 3: Expense Tracker Analysis



Objective

Control company spending and identify significant cost-saving opportunities



Approach

Categorised all expenses, detected anomalies using statistical methods and outlier detection



Insights

Found recurring unnecessary subscriptions costing 8% of annual budget

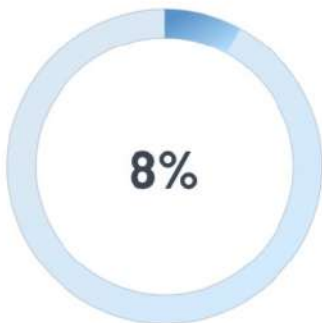


Impact

Strategic cuts and renegotiations saved \$50,000 annually

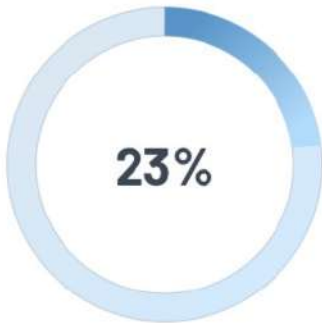
Cost Breakdown

- Software subscriptions: 28%
- Office supplies: 15%
- Travel expenses: 22%
- Professional services: 20%
- Miscellaneous: 15%



Budget waste

Identified in redundant subscriptions



Efficiency gain

Through expense optimisation

Project 4: Survey Data Analysis

1

Data Collection

Gathered 2,500+ customer survey responses across multiple channels

2

Cleaning Process

Standardised responses and removed incomplete or duplicate entries

3

Analysis Phase

Performed sentiment and frequency analysis to identify patterns

4

Insights Delivered

Linked dissatisfaction drivers directly to delivery delays and communication gaps

Key Findings

The analysis revealed that **delivery delays** were the primary driver of customer dissatisfaction, accounting for 42% of negative feedback.

Secondary factors included communication issues during shipping and unclear product descriptions on the website.

Business Impact

Guided targeted logistics improvements and enhanced communication protocols.

Customer satisfaction scores increased by **15%** within six months of implementing recommended changes.





Project 5: HR Analytics Dashboard

1

Integration

Connected multiple HR data sources including payroll, recruitment systems, and employee databases into unified platform

2

Visualisation

Created Power BI dashboard with interactive filters for real-time exploration of workforce metrics

3

Key Metrics

Tracked turnover rates, hiring pipeline status, diversity metrics, and performance indicators

4

Decision Support

Empowered leadership team with data-driven insights for strategic workforce planning



Turnover Analysis

Real-time tracking of attrition rates by department, role, and tenure



Hiring Pipeline

Monitor candidate progression from application to onboarding



Why These Projects Matter



End-to-End Skills

These projects showcase the complete data analysis lifecycle, from collecting and cleaning raw data to delivering actionable business insights and measurable outcomes.



Real Business Challenges

Each project addresses genuine business problems with tailored analytical approaches, demonstrating problem-solving capabilities across diverse domains and industries.



Measurable Impact

All projects highlight tangible return on investment through revenue increases, cost savings, efficiency improvements, and enhanced decision-making capabilities.

"Data-driven organisations are 23 times more likely to acquire customers and 6 times more likely to retain them."



Ready to Unlock Insights with Data?



Turn Complexity into Clarity

Data analysts transform overwhelming information into clear, actionable insights



Drive Business Success

Your organisation can thrive with the right data story guiding strategic decisions



Start Your Journey

Let's harness the power of data to drive smarter decisions and measurable results today

Every successful organisation in the modern economy relies on data analysts to navigate complexity, identify opportunities,