



- Download Stack Overflow 2023 Survey CSV file
- Review and understand the dataset

### DATA COLLECTION AND REVIEW

- Clean missing or erroneous data
- Organize columns and remove unnecessary data
- Set correct data types

### DATA CLEANING AND TRANSFORMATION

## STACK OVERFLOW 2023

### POWER BI INITIALIZATION

- Start a new project and import the dataset

### RELATIONSHIP DEFINITION AND MODELING

- Define relationships between different tables
- Create calculation tables and measures

### REPORT DESIGN

- Design pages and visualizations for the report
- Add charts, tables, and titles to organize the report

### OPTIMIZATION AND PERFORMANCE IMPROVEMENT

- Optimize performance for large datasets
- Increase speed using indexing and caching

### FILTERING AND SLIDE TRANSITION

- Add interactive filtering options for users
- Enhance user experience with slide transitions and page layouts

## Developer Profile:

### Education:

- 84% of developers have post-secondary education.
- Bachelor's degree is the most common (47%), followed by Master's degree (26%).
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### Learning to Code:

- Diverse learning methods, with online resources being popular (80%).
- More than half of those learning to code are 18-24 years old.
- Shift towards online learning; 70% to 80% since the 2022 survey.
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### Experience:

- Majority in early to mid-career, with 48% coding for less than ten years.
- Australia and the UK have the most experienced developers (average 17.5 and 17 years, respectively).
- 71% of respondents have 14 or fewer years of professional coding experience.
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### Developer Roles:

- Full-stack, back-end, front-end, and desktop/enterprise app developers are most common.
- New addition: Developer Advocates (0.3%).
- Diversity in skills, with many developers having multiple roles.
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### Key Territories:

- Survey responses from almost every country.
- Top countries: USA (21.21%), Germany (8.34%), India (6.4%), UKI (6.32%).
- Top 10 countries contribute to 60% of responses.
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### Demographics:

- Age distribution: 43% of Professional Developers are 25-34 years old.
- More than half of those learning to code are 18-24 years old.



# SUMMARY OF DATA