About the dataset

has around 90,000 responses.

OpenSourcer

OpenSource

Employment

Country

Student

EdLevel

EduOther

OrgSize

DevType

YearsCode

Age1stCode

YearsCodePro

CareerSat

JobSat

Mgrldiot

MgrMoney

MgrWant

JobSeek

LastInt

FizzBuzz

JobFactors

ResumeUpdate

CurrencySymbol

CurrencyDesc

CompTotal

CompFreq

ConvertedComp

WorkWeekHrs

WorkChallenge

WorkRemote

WorkLoc

ImpSyn

CodeRev

UnitTests

CodeRevHrs

PurchaseHow

PurchaseWhat

LanguageWorkedWith

LanguageDesireNextYear

DatabaseWorkedWith

DatabaseDesireNextYear

PlatformWorkedWith

PlatformDesireNextYear

WebFrameWorkedWith

WebFrameDesireNextYear

MiscTechWorkedWith

MiscTechDesireNextYear

DevEnviron

Containers

BlockchainOrg

BlockchainIs

BetterLife

ITperson

SocialMedia

Extraversion

ScreenName

SOVisit1st

SOVisitFreq

SOVisitTo

SOFindAnswer

SOTimeSaved

SOAccount

SOPartFreq

SOJobs

EntTeams

SOComm

Age

Gender

Trans

Sexuality

Ethnicity

Dependents

SurveyLength

SurveyEase

WelcomeChange

SONewContent

SOHowMuchTime

OffOn

OpSys

WorkPlan

you?

box empty.

UndergradMajor

The dataset you are going to use in this assignment comes from the following source: https://stackoverflow.blog/2019/04/09/the-2019-stack-overflow-developer-survey-results-are-in/ under a ODbL: Open Database License.

You will be given a subset of the original data set in this capstone project. You will explore, analyze, and visualize this dataset and present your analysis.

How often do you contribute to open source?

In which country do you currently reside?

What was your main or most important field of study?

Overall, how satisfied are you with your career thus far?

Do you want to become a manager yourself in the future?

Which of the following describe you? Please select all that apply.

Including any education, how many years have you been coding?

How many years have you coded professionally (as a part of your work)?

How confident are you that your manager knows what they' re doing?

Do you believe that you need to be a manager to make more money?

Which of the following best describes your current job-seeking status?

When was the last time that you took a job with a new employer?

Have you ever been asked to solve FizzBuzz in an interview?

Is that compensation weekly, monthly, or yearly?

How structured or planned is your work?

Do you review code as part of your work?

to do so, please check both boxes in that row.)

to do so, please check both boxes in that row.)

On average, how many hours per week do you spend on code review?

Does your company regularly employ unit tests in the development of their products?

How does your company make decisions about purchasing new technology (cloud, AI, IoT, databases)?

What level of influence do you, personally, have over new technology purchases at your organization?

year? (If you both worked with the database and want to continue to do so, please check both boxes in that row.)

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you both worked with the framework and want to continue to do so, please check both boxes in that row.)

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Which development environment(s) do you use regularly? Please check all that apply.

How is your organization thinking about or implementing blockchain technology?

How do you use containers (Docker, Open Container Initiative (OCI), etc.)?

Do you think people born today will have a better life than their parents?

To the best of your memory, when did you first visit Stack Overflow?

On average, how many times a week do you find (and use) an answer on Stack Overflow?

About how much time did you save? If you' re not sure, please use your best estimate.

Have you ever used Stack Overflow for Enterprise or Stack Overflow for Teams?

Would you like to see any of the following on Stack Overflow? Check all that apply.

Do you have any dependents (e.g., children, elders, or others) that you care for?

How do you feel about the length of the survey this year?

How easy or difficult was this survey to complete?

What is your age (in years)? If you prefer not to answer, you may leave this question blank.

Do you consider yourself a member of the Stack Overflow community?

Compared to last year, how welcome do you feel on Stack Overflow?

How frequently would you say you visit Stack Overflow?

What is the primary operating system in which you work?

Blockchain / cryptocurrency technology is primarily:

Are you the "IT support person" for your family?

Have you tried turning it off and on again?

What social media site do you use the most?

What do you call it?

faster?

Do you prefer online chat or IRL conversations?

I visit Stack Overflow to... (check all that apply)

Do you have a Stack Overflow account?

Do you identify as transgender?

Have you ever used or visited Stack Overflow Jobs?

over the next year? (If you both worked with the technology and want to continue to do so, please check both boxes in that row.)

over the next year? (If you both worked with the technology and want to continue to do so, please check both boxes in that row.)

How often do you work remotely?

Where would you prefer to work?

On average, how many hours per week do you work?

How do you feel about the quality of open source software (OSS)?

Which of the following best describes your current employment status?

Are you currently enrolled in a formal, degree-granting college or university program?

Which of the following best describes the highest level of formal education that you' ve completed?

Approximately how many people are employed by the company or organization you work for?

At what age did you write your first line of code or program? (E.g., webpage, Hello World, Scratch project)

In your most recent successful job interview (resulting in a job offer), you were asked to... (check all that apply)

Of these options, what are your greatest challenges to productivity as a developer? Select up to 3:

For the specific work you do, and the years of experience you have, how do you rate your own level of competence?

Imagine that you are deciding between two job offers with the same compensation, benefits, and location. Of the following factors, which 3 are MOST important to

What is your current total compensation (salary, bonuses, and perks, before taxes and deductions), in CurrencySymbol ? Please enter a whole number in the box

below, without any punctuation. If you are paid hourly, please estimate an equivalent weekly, monthly, or yearly salary. If you prefer not to answer, please leave the

Which of the following programming, scripting, and markup languages have you done extensive development work in over the past year, and which do you want to

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Which of the following database environments have you done extensive development work in over the past year, and which do you want to work in over the next

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Which of the following platforms have you done extensive development work for over the past year? (If you both developed for the platform and want to continue

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Which of the following web frameworks have you done extensive development work in over the past year, and which do you want to work in over the next year? (If

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Which of the following other frameworks, libraries, and tools have you done extensive development work in over the past year, and which do you want to work in

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Think back to the last time you solved a coding problem using Stack Overflow, as well as the last time you solved a problem using a different resource. Which was

How frequently would you say you participate in Q&A on Stack Overflow? By participate we mean ask, answer, vote for, or comment on questions.

Which of the following do you currently identify as? Please select all that apply. If you prefer not to answer, you may leave this question blank.

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Which of the following do you identify as? Please check all that apply. If you prefer not to answer, you may leave this question blank.

Think back to the last time you updated your resum CV, or an online profile on a job site. What is the PRIMARY reason that you did so?

Which currency do you use day-to-day? If your answer is complicated, please pick the one you' re most comfortable estimating in.

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Salary converted to annual USD salaries using the exchange rate on 2019-02-01, assuming 12 working months and 50 working weeks.

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Note: This randomised subset contains around 1/10th of the original data set. Any conclusions you draw after analyzing this subset may not reflect the real world scenario.

The below table lists the questions asked in the survey and the column under which the response was collected.	

The dataset is available as a .csv file here.

Stack Overflow, a popular website for developers, conducted an online survey of software professionals across the world. The survey data was later open sourced by Stack Overflow. The actual data set

Column Name Question Text

Respondent Randomized respondent ID number (not in order of survey response time)

Which of the following types of non-degree education have you used or participated in? Please select all that apply.

How satisfied are you with your current job? (If you work multiple jobs, answer for the one you spend the most hours on.)

MainBranch Which of the following options best describes you today? Here, by "developer" we mean "someone who writes code."

Do you code as a hobby? Hobbyist