

# Autumn Data Analysis Hackathon

## TechJapan Inc.

### Process:

The problem is given in four parts. I tried to solve them one by one. But before it, I selected DigitalOcean as Company “X” because I think it’s the perfect match for the given description as it is an IT company that went public recently in 2021 & growing at an amazing rate.

Out of four, the first problem was about understanding the trends in tech. So, a few trends are quite obvious like AI or Blockchain. But to understand market forecasting I read reports from Gartner, Precedence Research, Statista, etc.

Then I tried a different approach to understand the trends. I called it “Developers Perspective”. Here I analyzed Developer surveys by stack overflow, and the Developer Nation community to understand how new tech and trends are affecting developers. After collecting data in Excel from different resources I used Tableau to visualize it.

The second problem was about understanding the job market. So again I read different resources like WEF Future of Jobs, DigitalOcean reports, etc to understand it. After reading and collecting the data again I visualize it with the help of Tableau.

The third problem was about recent changes the company has undergone for this I read a lot about DigitalOcean workflow, annual reports, Earning presentations, Current reports, Release notes, etc. After reading all of them thoroughly I created a timeline for recent changes & a chart of the team leaders.

The fourth problem is about writing key findings & insights:

- Metaverse, AI, Blockchain, and Cloud computing all of the sectors will be having a market size of more than 1 trillion USD by 2030.
- By 2030, there will be 45 million developers which is double compared to 2020.
- Employee strength of DigitalOcean got doubled in just 3 years ( from 2020-2022)
- JavaScript is the most used programming language for the last 10 years despite being an older language.
- More than 80% of people are working remotely or in a hybrid manner.
- Around 70% of developers are either using or planning to use AI tools for their professional work.

Recommended order to analyze the project:

1. Read this document
2. Main Excel sheet from excel folder
3. Tableau files for visualization purpose ( I also provided the pdf format but pdf files are not interactive)
4. See the keynote presentation to see recent changes DigitalOcean has been undergone.
5. If you want to see you can look up the resources also.

And lastly Thankyou for this wonderful opportunity.