Things you should know about

Data Science Internships

Date : 23-10-2021 | Speaker : Ayon Roy

Hello **Buddy!**

I am **Ayon Roy**

Executive Data Scientist @ NielsenIQ

Mentored/Judged **90+** Hackathons

Delivered **60+** Technical Talks

Brought **Kaggle Days Meetup** Community in India for the 1st time

If you haven't heard about me yet, you might have been living under the rocks. Wake up !!

Agenda (23-10-2021)

- My journey as an **Intern with 3 organizations**
- My **learnings as an Intern**
- The **What** of Data Science Internships ?
- The **Why** of Data Science Internships ?
- The **How** of Data Science Internships ?

BONUS : **How to rock your next White-Board Interview for Internships**

My Journey as an
Intern with 3 Organizations

My First Internship @ MateLabs
(Summer Intern)

From July 2019 to August 2019

My Responsibilities

Explored the domain of Auto ML and got my hands dirty with some real world use cases while practicing the concepts of Time Series Analysis etc. Also used LSTMs, RNNs etc for other use cases.

Participated at In-House Kaggle Competition there to sharpen my skills in ML. Also helped in developing content for use cases.

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My Second Internship @ Lulu International Exchange
(Data Science Intern)

From January 2020 to January 2021

My Responsibilities

Built a dashboard which would forecast the Corridor wise Requirements for various business corridors so that they always have the stock for smooth operations.

Dimensions like Time are ought to be studied well for a business to grow and I experimented/forecasted that with a fusion of Big Data; utilizing the power of Data Science to solve some of the critical problems.

My Third Internship @ Internshala
(Data Science Intern)

From January 2021 to July 2021

My Responsibilities

Worked on A/B Testing of various changes on the platform which is being used by 5 million+ students & 1 lac+ employers. This process consisted of using several statistical methodologies to verify the outputs of several data driven initiatives.

Performed several campaign analysis to understand the impact of various campaigns as run by the Internshala team to engage the users.

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My
Learnings as an Intern

Ayon Roy

Speaker 🏆 Doing ML, Deep Learning, AI, Data Science, Python @ FinTech Ha...

1mo • Edited • 🌐

The 10 biggest learnings from my 4 Data Science internships -

1) You can't be completely reliant on what those **#datascience** courses teach you. Do self projects.

2) Love using Code IDEs like Visual Studio Code etc, in addition to Jupyter Notebooks.

3) Take time to code, but keep the code simple.

4) Document things as if you are taking notes to pass your examinations.

5) Focus on the Readability of your code which does the heavy-duty Data Science.

6) Focus on Modularizing your code. (include functions, classes, etc.)

7) Be attentive & curious.

8) Smile & talk to people around asking good questions.

9) Don't stress out, you are not expected to know everything.

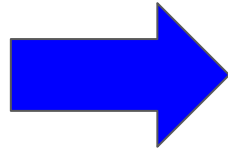10) Be grateful and reward yourself with something as you have got an **#internship**.

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The
What
of Data Science Internships

What are the requirements of a decent Data Science Internship Opportunity ?

Let's divide the variety of Data Science Internships out there in the industry

Requirements for **Entry Level Internships**

- Ideal for Second-Third Year Students of a 4 year Undergraduate course
- Basic Level of Python, OOPs, File Systems
- Good knowledge of Scraping, Numpy, Pandas & Data Visualization libraries
- High level overview of Machine Learning algorithms
- Few basic Data Pre-Processing & Exploratory Data Analysis Projects

Requirements for **Middle Level Internships**

- Ideal for Third-Fourth Year Students of a 4 year Undergraduate course
- Sound knowledge of Data Science concepts & other ML algorithms with good grasp on statistics & concept of maths, SQL
- Good knowledge of Deep Learning concepts, DBMS, API development
- Self projects using ML algorithms

Requirements for **Advanced Level Internships**

- Ideal for Final Year Students of a 4 year Undergraduate course
- Specialised domain of expertise like Computer Vision, Natural Language Processing etc.
- Proficient with whiteboarding of ML algos along with explanation of the basics
- Basic knowledge of Docker, Cloud
- 4-5 very good projects using the complex Deep Learning concepts like LSTMs, Transformers etc.

Best way to get a Pre-Placement Offer before campus hiring starts

The
Why
of Data Science Internships

SO YOU'RE TELLING ME

I HAVE TO GET EXPERIENCE BEFORE I GET EXPERIENCE?

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Why should students do **Data Science Internships** ?

- **To learn dealing with Messy, unstructured, incomplete data** (This is real industry)
- **To experiment & learn new things** as an Intern so that you can save time as a Full Timer excluding the mistakes you did as an intern.
- **To understand how end to end real world Data Science applications works.**
- **To network with people** who look like Future of You.
- **To work under pressure & learn how to deliver** in tough deadlines too.

To make like minded friends & throw a party at Starbucks

Ayon Roy

Speaker 🏆 Doing ML, Deep Learning, AI, Data Science, Python @ FinTech Ha...

2mo • Edited • 🌐

One of my friend asked me " Why I hunt for **#internships** in Data Science ? For certificates, stipend?"

My answer -
👉 It's my way of saving a few days of my future, while I enter the industry as a Data Scientist in 2021.

Friend asked " How ? "

My answer -
👉 I experiment & learn new things spending X days as an intern making tons of mistakes and at the end of X days, I know how to setup, deploy **#datascience** applications. Thus I can save days while I reiterate my learnings as a full timer, excluding the mistakes I did.

Friend again asked " Doesn't certificate, stipend matter for you ? "
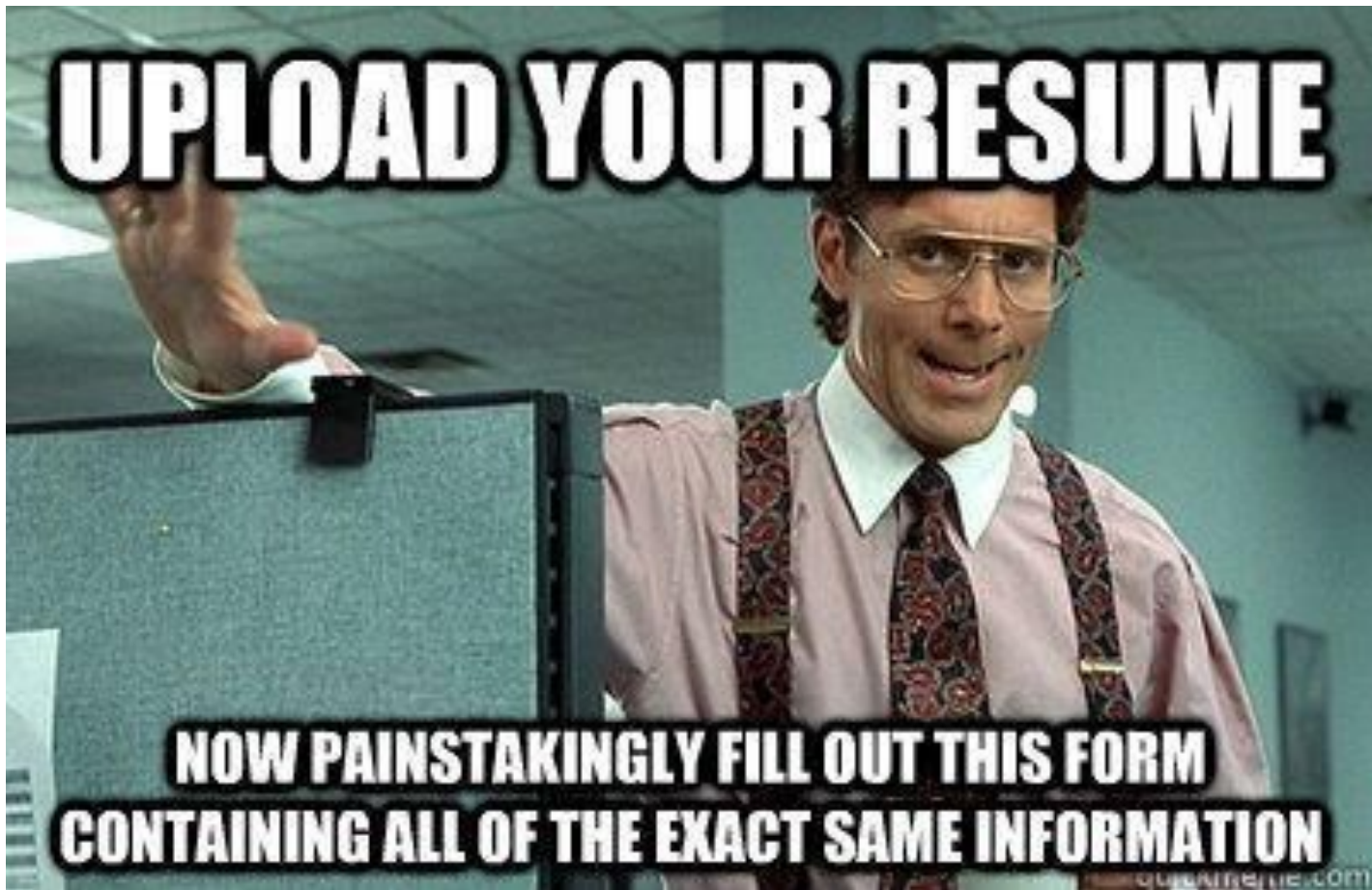
My answer -
👉 Certificates matter for showing to college, stipend matter to sponsor my cup of coffee at Starbucks.
But, Internships matter for my **#career** growth, so stipend and certificate are not my primary reasons for doing Internships.

Friend again asked " Help me get an internship "

The
How
of Data Science Internships

UPLOAD YOUR RESUME

NOW PAINSTAKINGLY FILL OUT THIS FORM
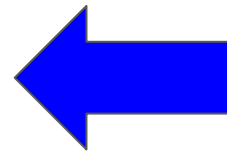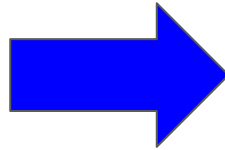CONTAINING ALL OF THE EXACT SAME INFORMATION

How to apply for Internships ?

- LinkedIn Jobs [Worked for Me]
- Angel.co [Worked for Me]
- Internshala [Not Worked for Me]
- Through Organization's Careers Page [Worked for Me]
- Commenting Interested on someone's LinkedIn Posts
  [Not Worked for Me]
- Career/ Internship Fairs [Never Tried]
- Via Winning Hackathons [Worked for Me]

My First Approach

THAT MOMENT WHEN THE INTERNSHIP APPLICATION FORM

ASKS FOR REFERENCES

ONE DOES NOT SIMPLY

COLD EMAIL

My Second Approach

How to rock your next White-Board Interview for Internships?

- Start from the top left corner of the whiteboard; so that you have more organised space for your ideas/thoughts.

- Leave a blank line between each line of your code.

- Choose variable names wisely.

- Draw the things to get a clear picture.

- Write down what values the variables hold as the program is running.

- Speak out loud what you are thinking to solve the problem.

- And finally please listen carefully to what your interviewer speaks.

WARNING

for

of Data Science Internships

Pay for Trainings, not Internships

Let me answer your Questions now.

Finally, it's your time to speak.

Danke Schoen

Questions ? Any Feedbacks ? Did you like the talk?
Tell me about it.

If you think I can help you,
connect with me via

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