Data Analytics using Python Internship Projects

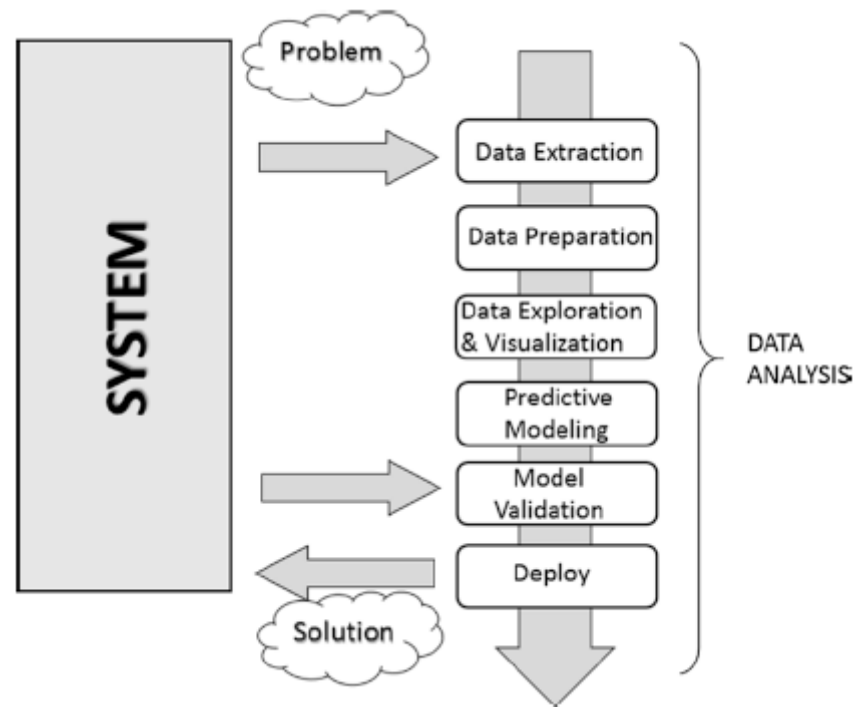## Our Industry Experts

Mr. Varun Jain

Senior Technical Consultant @ Portworx
Being Certified Redhat Linux and Vmware Engineer (RHCSA, RHCE and VTSP) I think this platform is the best place to start with simple Coding Internships w.r.t UI/UX , Web Development, then slowly moving towards Data Analytics and ML kaggle problem sets. I have contributed some problem statements to this platform. Hoping many take the Internship and earn their Internship Certificate.

The Data Analysis Process

Data analysis can be described as a process consisting of several steps in which the raw data

are transformed and processed in order to produce data visualizations and make predictions. Data analysis is schematized as a process chain consisting of the following sequence of stages:

Pre-requisites :

- It is expected that any one taking this Internship is hands-on with Data Analysis using Python, at-least a little more than a beginner level. Like one should know this much (https://datascience.suvenconsultants.com/) before starting this internship.

- (*Optional, but recommended*) You may like to get an overview on Data Analysis. Please read here (../../documents/Pre-read matter Introduction to Data Analysis.pdf)

- Our HR_team@Suven post multiple (Technology) **Job openings** of **Amazon** to **Zomato**, **Accenture** to **TCS**, with official application links on our Company Linkedin page. **Follow** Suven Consultants & Technology Company Page **on** Linkedin (https://www.linkedin.com/company/suven-consultants-and-technology-pvt-ltd/) to remain updated.

- Before starting the Internship Project please do see the **FAQ (https://internship.suvenconsultants.com/faq.php)** section once.

In this two week long internship programme, you are expected to complete the following two projects.

Project 1

Performing Analysis of Meteorological Data

- Hypothesis to be tested : The Influence of Global Warming on temperature and humidity.

- Libraries:Pandas, scikit-learn , matplotlib

- Download Project Specs from here (../../documents/Project_1_DA_using_Pandas Scikit_learn Coding Internship docs.pdf)
  (Use the Project Specs only as a refrence. As an intern you should be able to achieve atleast 90% of the functionalities. Any additional functionalities added by you is acceptable. This applies to all projects in this domain.)

- Refer instructions below on **"How to submit your project?"** for assessment

- Update your project hosting link in profile section for approval - see here (https://internship.suvenconsultants.com/profile.php#myprojects).

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Project 2

Recognizing Handwritten Digits with scikit-learn

- Hypothesis to be tested : The Digits data set of scikit-learn library provides numerous data-sets that are useful for testing many problems of data analysis and prediction of the results. Some Scientist claims that it predicts the digit accurately 95% of the times. Perform data Analysis to accept or reject this Hypothesis.

- Libraries : scikit-learn , matplotlib

- Download Project Specs from here (../../documents/Project_2_DA_using_Scikit_learn Coding Internship docs.pdf)

- Refer instructions below on **"How to submit your project?"** for assessment

- Update your project hosting link in profile section for approval - see here (https://internship.suvenconsultants.com/profile.php#myprojects).

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For each of the above Projects :

- To show case your data analysis work you need to write a blog article showcasing your data visualizations and thereby your conclusions. Make sure to mention this line at the end of the blog "I am thankful to mentors at **https://internship.suvenconsultants.com** for providing awesome problem statements and giving many of us a Coding Internship Exprience. Thank you www.suvenconsultants.com"

- Provide the **URL link of your blog article** when submitting the project for assessment. You can write your Blog using any one of the following tools : wordpress.com (https://wordpress.com/), blogger.com (https://www.blogger.com/about/), medium.com (https://about.medium.com/creators/) or wordpress.org (https://wordpress.org/support/article/writing-posts/)

- The AI assessment test is an MCQ test and starts immediately on project link submission.

- The AI engine would assess your knowledge through a 10 minutes MCQ test. If you clear it with minimum 6 correct answers out of 10, you would be awarded the Certificate of

Internship.

Acknowledgments :

✓ Our entire team would like to thank some great authors for their great books/resources/inputs.

✓ Without these great books learning and defining the Internship Project Specs wouldn't have had been possible.

1. Fabio Nelli - Python Data Analytics_ With Pandas, NumPy, and Matplotlib-Apress -- more here (https://www.amazon.in/Python-Data-Analytics-Pandas-Matplotlib/dp/1484239121/ref=tmm_pap_swatch_0?_encoding=UTF8&qid=&sr=)
2. Practical Machine Learning with Python by Dipanjan Sarkar, Raghav Bali, Tushar Sharma -- more here (https://www.amazon.in/Practical-Machine-Learning-Python-Problem-Solvers/dp/1484232062)

Training Programs

Coding Internships (https://internship.suvenconsultants.com/)

Python (Core + Advanced) (https://datascience.suvenconsultants.com/#python)

Masters in Data Science (https://datascience.suvenconsultants.com)

Business Data Analytics (https://datascience.suvenconsultants.com/#dataanalytics)

Full Stack Web Developer (https://monster.suvenconsultants.com)

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IT Recruitment - Lateral

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Employee Verification through Reference Checks

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Salary Negotiations as per Industry norms

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Complete Hand-holding Support till Joining

Get In Touch

For Training Connect Here (https://www.linkedin.com/in/rocky-jagtiani-3b390649/)

For Recruitment Connect Here (https://in.linkedin.com/in/simran-jagtiani-752b0347)

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