**Internship Report**

Company Name: FirstEigen

Name: Aishwarya Patil

Joining date: 27th December, 2021

College: AISSMS COE, Pune

Year & Department: Third Year, Computer Dept.

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**Company Background**

FirstEigen was founded in 2015, by Seth Rao and Angsuman Dutta. FirstEigen is a team of Data Scientists and Data Governance professionals. Their product DataBuck was developed by a team that has had experience in resolving Data Integrity issues at major corporations like AmEx, Anthem, Travellers Insurance, Citibank, UBS, Bank of America, Merrill Lynch, J.P. Morgan Chase, Progressive, Cigna, Humana, Blue Cross Blue Shield (IL, MI), etc.

Leveraging these experiences they created a tool, DataBuck, to validate Data Quality and Data Integrity for data in the 10’s to 100’s of GB’s in minutes.Data errors due to “Systems Risks” are the biggest contributors to untrustworthy data. As ETL jobs move data around, errors creep in and steadily multiply like cancer across an enterprise. For every step the error spreads, it takes 10x more cost and effort to fix it.

DataBuck is an autonomous data quality validation s/w. It automatically detects 100% of all Systems Risks with minimal human intervention using AI/ML. It automatically sets 1,000s of validation checks and their thresholds. It is >10x faster than any other tool or your own custom scripts. AI/ML enables the tool to be set up and validate entire databases or schemas in just a few clicks.DataBuck can validate the Big Data autonomously and at 10x speed of any other data validation tool or our own custom scripts.

FirstEigen is headquartered in Greater Chicago. Their partners include Cloudera/Hortonworks, MapR, AWS, GCP, Azure, Snowflake and others.ataBuck can even handle petabytes of data without scaling issues.

**Internship Objectives**

* To encourage and provide opportunities for students to get professional/personal experience through internships.
* To learn and understand real life/ industrial situations.
* To get familiar with various tools and technologies used in industries and their applications.
* To nurture professional and social ethics.
* To create awareness of social, economic and administrative considerations in the working environment of industry organisations.

**Internship Outcomes**

* Observed and gathered information on Databuck and Collibra as Data Quality check platforms.
* Managed spreadsheets and performed reports for the Project on Data Connections.
* Published JAVA code for data operations and deployed visualisation results on Couchbase.
* Gained information and implemented queries on MySQL.
* Deployed backend databases using JAVA on Couchbase.
* Shared knowledge and insights with the Data Science team in FirstEigen.
* Familiarised with various Machine learning models.

**Acknowledgement**

The internship opportunity I had with [‘FirstEigen’](https://firsteigen.com/) was a great chance for learning and professional development. Therefore, I consider myself as a very lucky individual as I was provided with an opportunity to be a part of it. I am also grateful for having a chance to meet so many wonderful people and professionals who led me through this internship period.

I am also using this opportunity to express my deepest gratitude and special thanks to Mr. Devendra Nasare, Product Manager of FirstEigen who took time out to hear, guide and keep me on the correct path and allowing me to carry out my tasks at their esteemed organisation and extending during the training.

I express my deepest thanks to Mr. Amol Shewale for helping me out with useful decisions & giving necessary advice and guidance with all technical aspects of the project. I choose this moment to acknowledge his contribution gratefully.

It is my radiant sentiment to place on record my best regards, deepest sense of gratitude to Dr. D. M. Ujalambkar, Internship Coordinator, Computer Dept., AISSMS COE and Mrs. M. M. Swami, Faculty Mentor, AISSMS COE for their careful and precious guidance throughout the internship in the said organisation.

Lastly, I would like to thank Dr. D. P. Gaikwad, Computer HOD, AISSMS COE and Dr. D. S. Bormane, Principal, AISSMS COE for providing the facilities to accomplish this internship.

I perceive this opportunity as one of the milestones in my career development. I will strive to use gained skills and knowledge in the best possible way, and I will continue to work on their improvement, in order to attain desired career objectives.

**References**

1. <https://firsteigen.com/>
2. <https://docs.couchbase.com/java-sdk/2.7/managing-connections.html>
3. <https://firsteigen.com/databuck/>
4. <https://www.collibra.com/us/en/platform/data-catalog>
5. <https://stackoverflow.com/questions/2839321/connect-java-to-a-mysql-database>