

2021 Final Year Project Definition Form

Project Title:

Closing some gaps in an Extract, Transform and Load(ETL) data modelling business problem (Project 5)

Company details:

DSV Global Transport and Logistics: <https://www.dsv.com/>

DSV Global Transport and Logistics South Africa: <https://www.za.dsv.com/>

DSV Global Transport and Logistics South Africa - Air & Sea Offices (where mentor is [currently based near OR Tambo Airport](#) moving to [DSV Office park \(Centurion\)](#) in April 2021, however remote meetings are encouraged during COVID epidemic).

Company background:

DSV Global Transport and Logistics is in the Top 5 companies globally providing 3rd Party logistics services. DSV has more than 40 000 employees across 80 countries with their head office being located in Denmark. Locally in South Africa DSV have more than 4000 employees and 30 engineers working for across 5 different divisions.

Project description:

Behind every powerful data story, dashboard and machine learning model sits a well-constructed and managed Extract, Transform and Load(ETL) data model. One such and ETL data model between financial and operational silo's of the business needs investigation and recommendations of improvement when considering the amount of manual work invested monthly to maintain it.

The project scope will entail:

- Literature review of:
 - o Business domain
 - o Extract, Transform and Load (ETL) data modelling
- Review and quantification of business case to improve the specific ETL data model.
- Interviews with four business area stakeholder groups:
 - o Finance data management
 - o Finance data users
 - o Operational data management
 - o Operational data users
- Powerful visual representation of gaps and efforts to close them

The end result of literature and reviews should be a demonstration of data anomalies and process flow charts recommending improvements that are quantifiable and convincing to various business stakeholders. Aptitude in Advanced analytics software(such as R, Python or/and PowerBI) required to analyse and present data to business in a meaningful way.

Industry mentorship:

Industrial / Snr Logistics Engineer

Industry mentor contact details:

Ninett Hesse, Mrs

Ninett.Hesse@za.dsv.com

074-454-9999

[but email communication is preferred]

Project topic application process:

All applicants are to email to Ninett.Hesse@za.dsv.com by close of business day 5th of February 2021: a short CV, their academic transcripts as well as a cover letter indicating why they would be a good candidate for the particular project.

Applicants will be notified about project allocations on the 9th of February 2021.

Any other relevant information:

Students applying for DSV Project 4 and 5 must be able and willing to demonstrate aptitude in the use of Advanced analytics software(such as R, Python or/and PowerBI) to analyse and present data to business in a meaningful way.

- The Student must address confidential information and ensure that deliverables do not contain any confidential, sensitive or proprietary information of the company. The following is potential actions must be applied:
 - o Making use of a fictitious name to represent the company, for example, referring to Company ABC.
 - o Withholding, excluding or adjusting important confidential or sensitive data, such as design drawings or financial information.
 - o Coding sensitive data, for example, by adding or subtracting a constant from all values.
 - o Requesting the Department not to publish the deliverables on UPSPACE.