# NIKHILESH SANDELA

Master's Thesis

M.Sc. in Digital Engineering, OVGU

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## SUMMARY


Highly inspired and committed Masters student with experience in Data science & analytics, curious to start Master's thesis in the field of Data science, specifically in AI and Autonomous systems. And I believe this position resonates strongly with my interests. • Prior experience working with the Fraunhofer IFF • Extensive Data handling skills • Excellent time management and problem-solving skills • Organized and motivated to learn, grow and excel.


## RELEVANT COURSEWORK

- Database Concepts
- Deep Learning
- Information Retrieval
- Optimization Algorithms
- Factory Automation
- Industry Robots
- Probability & Statistics
- Computational Fluid Dynamics

## INDUSTRY EXPERIENCE

**Digital Engineering Project-** *Fraunhofer, IFF (Magdeburg, SA)*

- Was part of a technical project titled, "***Window Counter***", a full-stack web application, developed using state-of-the-art Deep learning techniques. The goal of this project is to automate the stocktaking of building windows.
- Responsible for creating & managing the database (*SQLite, Python*), and integrating the frontend (*Angular*) with backend (*TensorFlow, OpenCV*, and others).
- Deeply involved in the dataset generation, model creation & development, API communication, project management and documentation.

## TECHNICAL SKILLS

***Languages***: Python, Java, SQL, MATLAB | ***Tools***: Pandas, NumPy, Matplotlib, SK-Learn, Flask, TensorFlow, MySQL, Tableau, LaTeX

## RESEARCH SKILLS

- Strong writing and literature survey skills
- Strong organizational skills - ability to quickly assimilate and summarize information
- Hands-on experience of report writing and documentation in Overleaf (LaTeX)
- Self-starter and independent worker
- Project management skills

## STRENGTHS

- Strong work ethic • Time management • Attention to detail • Critical thinking • Analytical skills

## TECHNICAL REPORTS

- Nikhilesh Sandela & Kamal Hasan & Narendra Anupoju et al. (2020). "*Window Counter: An object detection model to automate stocktaking of building windows, using Deep Learning*". (Advisor(s): Martin Matke, Andreas Wiedemann, Stefanie Samtleben), Fraunhofer IFF, Magdeburg, Feb 25, 2020.
- Nikhilesh Sandela (2020). "*Developing a CAD Model to Purify Air from Truck Exhaust, using Solid Edge 3D CAD modelling techniques*". (Dr.-Ing. Dipl.-Math. Michael Schabacker), OvGU, Magdeburg, Oct 09, 2020.
- Nikhilesh Sandela (2021). "*CFD Simulation (2D flow) around a Pickup Truck, using StarCCM+*". (Apl. Prof. Gabor Janiga), OvGU, Magdeburg, Jan 30, 2021.
- Nikhilesh Sandela & Ani Spahieva et al. (2021). "*Search Personalization: Development of a web search engine using Information Retrieval techniques*". OvGU, Magdeburg, Feb 20, 2021.