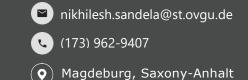
NIKHILESH SANDELA

Master's Thesis
M.Sc. in Digital Engineering, OVGU



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

<u>Digital Engineering Project</u>- 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.