

Hruday Kumar Kolla
Engsbachstraße 58
57076 Siegen

Robert Bosch GmbH
Postfach 13 42
72703 Reutlingen
Besucher:
Tübinger Straße 123
72762 Reutlingen
Telefon 07121 35-0
www.bosch.com

Simon Baeuerle, ME/ETP3
Telefon +49 7121 35-35136
Simon.Baeuerle@de.bosch.com

Reference letter

22. Januar 2025

Dear Sir or Madam,

Hruday Kumar Kolla worked with us at Robert Bosch GmbH in Reutlingen from March 2024 until September 2024 for his masters thesis with the title "AI-based unsupervised defect recognition for image data from automotive series manufacturing".

Contents of his thesis:

- Implementation of a novel approach to clustering of high-dimensional data
- Usage of the following technologies: feature extraction with multiple Artificial Neural Network architectures, dimensionality reduction, clustering
- Custom adaption according to our novel approach
- Alignment with our regular colleagues regarding the data
- Benchmarking on 4 different industrial datasets

Hruday Kumar Kolla implemented all working packages successfully. The implemented software code was well documented and could be re-used by our colleagues as-is without any efforts. I want to highlight his thorough, but efficient working mode. He always accomplished his tasks much quicker than expected and delivered outstanding results. I was very happy to work with him and wish him all the best for any future tasks.

Best regards

Robert Bosch GmbH
Simon Bäuerle