Master thesis, bachelor thesis, project thesis

Data processing and evaluation for process analysis

Incorrect positioning during forming can be detected via force sensors attached to the die.
The aim is to investigate whether certain signals indicate different types of incorrect positioning. For this purpose, the force progression curves of the individual sensors are to be examined. The aim is to determine the sensor positions and sensor combinations that allow the best predictions to be made about the type and severity of the misalignment.

If you have any questions about the project, please feel free to contact me.

Your tasks

Independent processing of the following main topics:

- Data evaluation and cleansing
- Preparation of data for AI models or rule-based decision and prediction models
- Testing different sensor combinations
- Evaluation and assessment of different sensor combinations with regard to prediction quality
- Visual presentation of the results
- Regular discussion of the results
- Generation of creative approaches for transferability to other geometries and error patterns

Your profile

You are studying one of the following subjects:

- Mechanical engineering
- Production engineering
- Industrial engineering
- Computer science
- or a similar subject

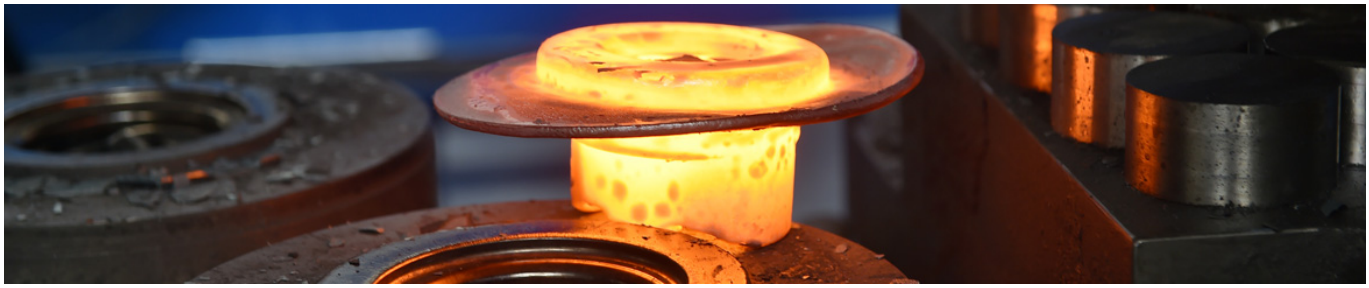
You are interested in programming, artificial intelligence or process monitoring.

You also have knowledge of AI and programming with Python.

Very good written and spoken German is a prerequisite.

We offer

- independent work
- flexible working hours
- well-equipped workplaces
- Home office by arrangement
- possibly long-term cooperation



Bitte sende deine aussagekräftige Bewerbung in einer einzigen PDF-Datei an jobs@iph-hannover.de.

Die Bewerbung muss Anschreiben, Lebenslauf sowie Prüfungsleistungen des Studiums / Zeugnisse enthalten.

Contact

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