

IDP (Intelligent Document Processing) for construction

About comstruct

comstruct, a fast-growing pre-seed startup, is set to bring the construction industry's procurement processes into the digital era. We're laying a new foundation by transforming traditional materials purchasing into a streamlined digital experience.

Backed by Angels and VCs such as Mario Götze, Christian Hülsewig and Rivus Capital, we're building a platform where construction companies and materials suppliers exchange invoices, orders, and delivery notes digitally. By automating follow-up processes like invoice approval, we're minimizing the heavy lifting of paperwork. Plus, we're analyzing and documenting all purchasing data for process optimization - all part of our blueprint for a smarter future.

Project Description: Intelligent Document Processing (IDP) - A Cornerstone of Digital Construction

comstruct invites informatics students from TUM to participate in a unique Interdisciplinary Project (IDP) – focused on our Intelligent Document Processing (IDP) pipeline.

In the project, students will have the opportunity to refine our current AI approaches, reinforcing the structure of our digital solutions. Comprising both theoretical and practical segments, this project offers an excellent chance to strengthen your management techniques and informatics skills in an exciting real-world context. Students can embark on this IDP individually or collaborate in a team of 2-5 members.

Project Tasks and Goals

- **Blueprint Analysis:** Decipher our current AI Document Processing pipeline, understand its framework and functionalities.
- **Site Inspection:** Identify potential weaknesses or bottlenecks in the pipeline and plan strategic reinforcements.
- **Renovations:** Implement the planned improvements and test their impact on the pipeline's performance.
- **Presentation and Documentation:** Compile a comprehensive report outlining your findings and improvements, and present your work to the comstruct team.



- **Project Management:** Apply management techniques such as Scrum, Agile, or Lean Six Sigma to your project.

Requirements for Students

- Major in Informatics or a related field – a strong foundation is crucial.
- Solid understanding of AI, Machine Learning, or Data Analysis – essential tools for the job.
- Proficiency in one or more programming languages (preferably Python) – our construction language of choice.
- Ability to work independently and in a team – because collaboration builds stronger structures.
- Excellent analytical and problem-solving skills – for constructing effective solutions.
- Strong communication skills in English – clear blueprints require clear communication.

We at comstruct are eager to collaborate with students, providing an opportunity to apply academic knowledge to industry challenges. This project is a fantastic opportunity for students to contribute to an industry-shifting solution while fine-tuning their technical and managerial skills.

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