

Optical Character Recognition



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Optical Character Recognition

Optical Character Recognition is detecting text from an Image. Handwritten or a printed version or sign boards in machine understandable version. It is common to digitize visual text into electronic form to store or edit data or perform any further action upon proper interpretation. **OCR** has wide range of applications depending on the field of interest.



The objective of this project is to detect characters (programmer suited from printed paper, document or sign board etc.) and display the result. The programmer has choice to implement on Linux or Android with target detection accuracy no less than 80%. Preferably the accuracy is expected to be around or above 90% for better results.

The application may extend to alphanumeric and various symbols used on regular keyboards. If possible, extend to different Swedish alphabets apart from standard English alphabets.

The programmer may use any of the open source libraries or implement one to achieve the results. Following steps may be implemented during the OCR implementation:

- Input feed
- Pre-processing
- Segmentation
- Extraction / recognition
- Output to display.

Sounds interesting? Do you want to tweak the scope with your own ideas?

Get in touch with us for a discussion!

Next Step?

To secure that the project is yours please send a mail or call me (Gabriel Ibanez), I will be willing to share with you further details including booking a first meeting with your project supervisor:



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You are most welcome to join us at **Cybercom Lindholmen (Lindholmspiren 3A, 417 56 Göteborg)** on Monday the 23th October at 17:00. We will show you then how we work, run a demo of our current ongoing-projects and let you meet the rest of the Innovation Zone's team so that you can feel at home from day one.

There will be pizza and opportunity to meet your project supervisor to discuss further about your project. Welcome!

A promotional poster for an event. The background is a solid reddish-pink color. On the left, white text reads "Monday 23th October", "IZ demo + 🍕", "KI 17:00", "Lindholmspiren 3 vån 5", "417 56 Göteborg", and "Gabriel Ibanez: +46 722 388 479". In the center, a man in a blue suit stands with his arms crossed. In the bottom right, a black motorcycle helmet sits on a dark table. The Cybercom Group logo is in the top right corner. On the table in front of the man are a glass of dark liquid, a napkin, a pen, and some papers.

Short about this document and Innovation at Cybercom

In the several PDFs with ideas presented by Cybercom you will find several possibilities for thesis and practice at Cybercom Göteborg.

Since Cybercom is an innovative IT consulting company we have a wide range of clients in different sectors and that means we are always willing to explore new technologies in a large variety of different domains such as Telecom, Automotive, IoT, Machine Learning, Virtual & Augmented Reality, Cloud and Big Data, just to name a few.

The collection of ideas that we present to you intend to reflect that diversity, we at Cybercom hope that you can find them inspiring. May your idea for project not be among our proposals? Let us hear about it, we will always welcome your own ideas and proactivity.

More about Cybercom: <https://www.youtube.com/watch?v=IRQxzbB5gsE&feature=youtu.be>

Innovation Zone's blog:

<https://www.cybercom.com/innovation-zone/blogs-innovation-zone/innovation-zone-blog/>



A sample of theses and practices that were supported by Cybercom

Below you can find some examples of thesis and practice handled at Cybercom in the past few years, they might be inspiring. Follow the QR codes to read further details about the them.

"Indoor positioning in LoRaWan networks"



"Indoor positioning with UWB"



"Comparison of Native, Cross-Platform and Hyper Mobile Development Tools Approaches for iOS and Android Mobile Apps"



"3D head scanner"



"Security Analysis of Machine Monitoring Sensor Communication"



"Resource Adaptive Cloud Services for the Connected Vehicle"
