Security for Data Scientists:

**Introduction:**

* Tor and Darkweb
  + Students in Amsterdam did DDoS-attack to interrupt exams
* Information security wants to provide integrity, confidentiality and availability of data (CIA triad)
  + Confidentiality: Data encryption, data itself as well as the transit;  
    Integrity: File permission and user access control, VCS, cryptographic checksums (HMAC: hash-based message authentication code)  
    Availability: Maintained and redundant hardware that is updated, RAIDs, DRP (Disaster recovery plan), backups, measures against DDoS
* Authentication and authorisation
* API-Gateway for security for company intern data
* Password security: longer passwords, expiration: no expiration, only if leaked 🡪 system to check leaked passwords
* Use **CyberChef**