Electrical engineer & Software developer I just transform theoretical knowledge into working systems. Tunisian 27 years old in Linkedin/Ayoub Malek % Stackoverflow/SuperKogito Avoub Malek's blog FIELDS OF KNOWLEDGE PUBLICATIONS Telecommunications Speech technology Machine learning Data processing [under review] Ayoub Malek and Hasna Marwa Malek (2020). "Pydiogment: A Python package for audio augmentation". In: The Indoor localization Optimization problems Antenna measurements Journal of Open Source Software (JOSS) Signal processing | Embedded security | Software development Paper: Github/SuperKogito/pydiogment/paper.pdf Project's folder: Github/SuperKogito/pydiogment **EXPERIENCE EDUCATION** Machine learning engineer Yoummday GmbH Munich, Germany Junior M.Sc. in Electrical Engineering and Information Technology • Develop an emotions recognition system to monitor clients satisfaction. • Process & visualize huge audio data and generate a training & testing database. Assure speed and efficiency using a multi-processing architectures. Master Thesis at Rohde & Schwarz: Antenna Array Diagnosis Using Build monitoring tools for windows operating system. Phaseless Near-Field Data C++ Emotions recognition | Machine Learning Data augmentation Master thesis grade = 1.3 Supervised learning | Deep learning | Classification | Antenna testing data processing machine learning Software developer Yoummday GmbH B.Sc. in Electrical Engineering and Information Technology 🛗 Jun 2018 – Nov 2018 🕈 Munich, Germany Working student Develop a voice authentication system to detect fraudulent connections. Process & visualize huge audio data and generate a training & testing database. • Bachelor Thesis at TUM: Simulation Tool for WiFi Based Localization Python | Speaker authentication | Unsupervised learning • Bachelor thesis grade = 1.0 WiFi-based indoor localization Simulation Matlab **INTERNSHIPS** Embedded security developer la blik GmbH Deutsche Sprachprüfung für den Hochschulzugang (DSH) Aug 2017 – Nov 2017 Munich, Germany Research internship & Feststellungspruefung (FSP) Heidelberg University m Sep 2012 - Jun 2013 • Secure communications in a sensors network (TI cc2650 sensors & RPi broker) • Implement symmetric encryption (AES-128) and hashing algorithms (SHA-256). Embedded security | Micro-controller | (IoT) (C) (TI cc2650) **High School Graduation Diploma** Lycée pilote Monastir **Sep 2008 - Jun 2012** Raspberry Pi | Authenticated encryption • Specialization Area: Technology (technical diploma), GUI designer & developer eCARus, Technical University of Munich • Grade = 1.3: Top 15 best Tunisian students in 2012 - government Aug 2014 – Oct 2014 🕈 Munich, Germany Engineering internship scholarship to study in Germany (with DAAD supervision) Develop an informative android app & Translate the Typo3 webpages to english. technical baccalaureate • Develop the Elektrobit-app GUI with dual-language (EN / DE) feature. </> PROGRAMMING LANGUAGES Android java | Elektrobit | Design tools | Typo3 | Foreign languages **ACTIVITIES AND LEADERSHIP** Python urlstechie Mar 2020 - Today Founder & core developer Matlab **♀** Online • @urlstechie is an online project providing urls checking/ testing tools. Latex & Bash Continuous integration | urlchecker GitHub action | urlcheker Python package Python: Top 10% on Stackoverflow.com numpy matplotlib scipy pandas sklearn keras GitHub ∰ Jan 2019 - Today Open source contributor reStructuredText | BeautifulSoup hashlib Online • Core developer of @spafe & @pydiogment each with more than 2k downloads. C, C++ • Various contributions to different open source projects such as: @librosa, @sphinx, etc. Basvs 3 BLE nano TI cc2650 MbedTLS **AES** SHA **Eclipse** Xilinx Vivado CHAI3D SDL Sockets TCP UDP Qt Box2D MIX program, Technical University of Munich Mentor Visual studio Falcon Haptic Device ☐ Oct 2016 – Aug 2017 ♥ Munich, Germany • MIX Program = Mentoring for International Exchange Students. Matlab • Introduce them to the student life in Germany and Münchner-Studentlifestyle. computer vision indoor mapping signal processing • Assist exchange students during their time at the Technical University of Munich. LANGUAGES Networking Cultural exchange Foreign languages practice Arabic German English Tunesische Akademiker Gesellschaft, TAG e.V French Treasurer REFERENCES • Set-up events budgets, control expenses and seek new income resources. • Several are available upon request. • Collect the membership fees, prepare the Bills and assist other factions when needed. Microsoft Excel (Networking) Financial reporting Budget control