# ALI SHIBLI

*Data Scientist*

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## EDUCATION

**M.S.**
Machine Learning
**KTH Royal Institute of Technology**

- 📅 August 2020 - June 2022 Stockholm,
- 📍 Sweden GPA: 3.8
- 🎓 *Hattrik Award on AI Course*

**B.S.**
Double Major in Computer and Communications Engineering and Pure Mathematics **American University of Beirut**

- 📅 August 2015 - June 2020 Beirut, Lebanon
- 📍 GPA: 3.5

*Dean's Honor List*
*Best Engineering Final Year Project*

## WORK EXPERIENCE

### Data Scientist
**Ericsson**

- 📅 February 2022 - June 2022  📍 Stockholm, Sweden
  - Implemented a framework for querying, preprocessing, and visualizing satellite imagery from different cities across the world.
  - Implemented various SOTA CNN models to extract representations from satellite images.
  - Working closely with the networking production team to build a production model which will optimize the Network Traffic Prediction KPI.

### Machine Learning Mentor
**Professional Education Content Alliance**

- 📅 December 2021 - January 2022  📍 Stockholm, Sweden
  - Instructed 30 engineers, using self prepared slides and the discovery method, to provide in-depth reviews and practice problems in data science and machine learning.
  - Designed and implemented jupyter notebooks for exercises from scratch in Python that cover a wide range of ML topics.

### AI Teaching Assistant
**KTH**

- 📅 August 2021 - October 2021  📍 Stockholm, Sweden
  - Graded 100+ assignments per grading period to aid the teacher in AI topics of Hidden Markov Models and Reinforcement Learning.
  - Partnered with teachers and specialists to implement developmentally suitable lessons tailored to 47 students.

### Data Scientist - NLP
**Ericsson**

- 📅 June 2021 - August 2021  📍 Stockholm, Sweden
  - Led a team of 3 data scientists and 1 web developer to develop a chatbot for Ericsson that is now in internal use in the company.
  - Researched and implemented state of the art methods in NLP and conversational systems.
  - Developed the Ericsson Question-Answering (QA) dataset by over 1000 labelled QAs.

### Research Engineer
**KTH**

- 📅 October 2020 - April 2021  📍 Stockholm, Sweden
  - Designed a deep learning model that extracts information from images as text in a weakly-supervised manner and acheiving SOT results.
  - Deployed a web scraping engine that leverages the collection of thousands of images with captions from different web search engines in few seconds.

## SKILLS

Programming (Python, Java, C++, Scala)

Python (NumPy, Pandas, Scikit-learn, Pytorch, Tensorflow, Keras)

Web Development (Flask, Django)

SQL (MySQL, NoSQL)

Cloud Computing (AWS [EC2, S3], GCP)

Machine Learning (computer vision, natural language processing, recommender systems)

Data Science (data engineering, preprocessing, analysis, and visualization)

Git

Leadership Experience

Productionizing Models

## Network Engineer

**Touch Telecommunications**

📅 June 2019 - August 2019 　📍 Beirut, Lebanon

- Charged with building, configuring, installing, managing, and monitoring networking and IP telephony infrastructure-related hardware and software.
- Analyzed and resolved fault reports and undertook routine preventative measures to avoid service degradations.

## PROJECTS

### Tree-D

- developed an autonous driving drone based on a computer vision algorithm, that detects parasite nests in trees and shoots them with chemicals. The model achieves 80% accuracy in real time.

### Image-Caption-Scraper

- Open source package in Python that leverages downloading images with captions from web search engines. The package can download 50 thousand images in about 10 minutes.

### Netflix Movie Recommender

- Developed a recommender system based on a hybrid model, that combines neural collaborative filtering and content based recommendation.

### Lebanese Sports Pitches

- Developed a mobile app to connect sports pitches (football and basketball) in Lebanon allowing online booking and reservations.