



T5 Boot Camp

Data Science

## Project Proposal

### No.4 (Unsupervised-NLP)

No.	Names
1	Nawaf Almutairi
2	Surayyi Alqahtani
3	Ahmad Alharthi
4	Faisal Alsufyani
5	Shoug Alkhathran

Instructor:

Mejdal Al-Qahtani

- **Problem statement:**

The problem statement is in real world which specifically in the Ministry of National Guard Health Affairs they have a system call a ME service desk which is in simple words if you have a problem, you request an email to the employee who are responsible for the requests to help you. The problem is the process takes too much time to solve it and there are many requests to handle it. So, we will make a chat bot how can save the time and effort and decrease the load of the routine problems, in certain cases transfer the client to the real agent.

- **Data Description:**

The data are from Ministry of National Guard Health Affairs.

**Columns:** Not determined yet.

**Data size:** Not determined yet.

- **Tools:**

**Programs:** Python – Jupyter.

**Libraries:** Pandas – Matplotlib – NumPy – Seaborn - scikitlearn- SpaCy - Polyglot

–NLTK – TextBlob – Keras – Pickle – Chatterbot – Flask.

- **MVP Goal:**

Create an interactive chatbot using deep learning to speed up employee service and improve quality.