# Ahmed Affan
## Data Scientist

I'm Software Engineer and my domain is Data Sciences. Currently working as a Data Scientist "Research Assistant " in NUCES research lab.

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▧ kaggle.com/ahmedaffan789                   in linkedin.com/in/ahmed-affan

## EDUCATION

### MS Data Science
FAST NUCES

*08/2020 - 08/2022*                                      *Islamabad*

Courses
- Machine learning , Deep Learning , Natural Language processing , Social Network Analysis, Data science tools and Techniques, Statistic for Machine Learning

### BS Software Engineering
University of Management and Technology

*10/2015 - 10/2019*                                      *Lahore*

Courses
- Data Mining, Artificial Intelligence

## WORK EXPERIENCE

### Data Scientist "Research Assistant"
FAST NUCES

*02/2022 - 01/2023*                                      *Islamabad*
*UrduX Lab working on language translation*

Achievements/Tasks
- Dataset generation , Neural Machine Translation , Sentiment Analysis, Evaluation of results of "NMT" models.
- Developing state of the art model for "NMT" using Transformers that can translate idiomatic sentences.
- NMT "Neural Machine Translation" using BERT & Transformer.

*Contact : Mehreen Alam  - mehreen.alam@nu.edu.pk*
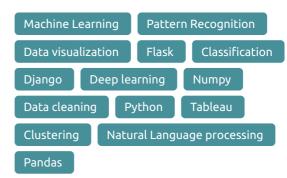
### Machine learning Engineer
Senarios

*02/2023 - Present*                                      *Lahore*
*Artificial intelligence based company*

Achievements/Tasks
- NLP task's using state of the art techniques.
- Using OpenAI models, GPT-3.5 Turbo in chatbots.
- Performed documents text style transfer and text summarization.
- Worked on chatbot's on user defined data that can be uploaded on run time and one can retrieve information by querying over data. (Using LangChain)
- Create instance's on AWS (EC2), Azure (AWS Virtual Machine)

*Contact : Senarios  - hr@senarios.co*

## SKILLS

| Machine Learning | Pattern Recognition |
| Data visualization | Flask | Classification |
| Django | Deep learning | Numpy |
| Data cleaning | Python | Tableau |
| Clustering | Natural Language processing |
| Pandas |

## PUBLICATIONS & PERSONAL PROJECTS

Detecting multi-class kidney abnormalities using Deep learning (12/2022 - 01/2023)
*Using CNN "Res-Net" "VGG-16" to classify abnormalities of CT-scan kidney slices published in ( IMCOM 2023 )*

Idiomatic Machine Translation for Low Resource Language Urdu (02/2022 - 12/2022)
*Neural Machine Translation using Transformers, handling the issue of idiomatic translation published in ( "Natural Language Engineering" Cambridge University Press )*

Sentiment Analysis for Music podcast (12/2021)
*Detecting emotions from text and it's intensity using LSTM, RNN and Bi-directional LSTM to recommend background music for podcast.*

Pattern Regonination (03/2021)
*Finding insights form the data using pattern mining algorithms like frequent pattern mining and getting useful information from social media application*

## CERTIFICATES

Deep Learning specialization by Andrew NG (07/2021)

Machine learning from Stanford Universiry (07/2021)

## LANGUAGES

English
*Professional Working Proficiency*

Urdu
*Native or Bilingual Proficiency*

## INTERESTS

| Coding | Data Science | Knowledge Extraction |
| Music | Cricket | Swiming | Travelling |