

in maqboolurrahim

Education:

Masters in Computer SciencePaderborn University, GermanyMar 2018 - Sept 2021Bachelors in Computer EngineeringSir Syed University of Engineering, PakistanJan 2012 - Dec 2015

Experience:

Data Engineer GROPYUS GmBH, Germany

May 2022 – Present

Working with knowledge graphs to enable next-gen data driven construction and smart buildings.

Student Research Assistant

DICE Research Group, Germany

July 2020 – September 2021

Extension to master's project group hence contributed to the further development of IDA chatbot.

Software Engineer

Syglo.de, Germany

June 2018 – June 2020

Developed a web-based manager for a house connection surveying app using Angular and Firebase.

Software Developer Engineer

Symantec Inc, Pakistan

November 2016 - March 2018

Worked on a real-time dashboard using tools including Angular 1, Python's Django and MongoDB.

NodeJS Developer

Interactive Cells, Pakistan

March 2016 – October 2016

Worked with NodeJS to develop REST APIs and migration scripts for an Ad-tech startup.

Projects:

RDF-to-Text (NLG task)

Master's thesis (grade 1.5)

 Researched RDF-to-text generation task using state-of-the-art ML method. Develop solution in pipeline fashion using Pytorch and WebNLG corpus.

IDA

Master's project (grade 1.3)

 A chatbot for data-scientists, Co-lead the team of 8 fellow students and developed visualizations and Natural Language Engine. Project Site: github.com/dice-group/ida-pg

Project NLP

Personal project

• A project where I am implementing basic tasks of NLP e.g., Classification using statistical and deep learning approaches. Project Site: github.com/maqboolkhan/project-NLP

Project NMT

Personal project

A project to explore LSTM, Transformer, pre-trained word embeddings and models for Neural Machine
Translation task from scratch using Pytorch and hugging face. Project Site: github.com/maqboolkhan/nmt

A Web Search Engine

Bachelor's final year project

A search engine focused on query understanding and grouping relevant results. Developed using NLTK,
Flask, Nodejs and Elasticsearch DB.

ACCS

Personal project

A Rapid Microsoft word document format changer. Project Site: maghq.blogspot.com

Oranje

Personal Project

The Simplest Java Code Editor Project Site: oranjehq.blogspot.com

Skills:

Programming Languages Python Javascript Java

Python Frameworks Pytorch Scikit-Learn Numpy Pandas NLTK

RDFLib FastAPI PyTest

ML/NLP Transformer BERT LSTM NMT Attention

Word embeddings Sequence to Sequence models

Databases Triple stores Elasticsearch MongoDB

Tools Docker Git Regex AWS (Sagemaker. & EC2)

Jupyter Notebooks CI/CD

Extra Circular Activities:

• Student at ACL Mentorship program (Aug 2021)

• First Pakistani Winner of Firefox OS Global App Dev Competition (Nov 2014)

Third Position in two days Scayle Hackathon (Nov 2016)