

Zulqarnain Haider

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EXPERIENCE

Research Assistant at PARALLEL COMPUTING NETWORKS

FAST,H-11,Islamabad

NLP + Machine Learning

11/2023 – current

- Implemented state-of-the-art NLP and ML algorithms for Knowledge Graph of Unstructured news text Data.
- Managed the collection and preprocessing of large datasets, ensuring high-quality inputs for training and testing machine learning models. Train model for Fake news detection and plot news on Pakistan map.
- Scrape Data from Multiple News source and Generate Knowledge graph ,apply Graph Algorithm for searching.
- Successfully integrated AWS cloud services into the research infrastructure, optimizing scalability and performance.
- Proactively engaged in brainstorming sessions, addressing challenges and proposing innovative solutions to enhance project outcomes.

Teacher at ReDI School of Digital Integration

Mehringdamm 55, 10961 Berlin, Germany(Remote)

Python Teacher+Content Creation

03/2021 – current

- Delivered engaging lessons on computer science principles and introductory Python programming.
- Provide personalized guidance and support to students, addressing their individual learning needs.
- Create and administer assessments to evaluate student progress and identify areas for improvement.
- Recognized by peers and students for creating an inclusive and supportive learning environment.

Junior Tester at FIXFIRST

H-12, NSTP, NUST

Andriod Testing

07/2023 – 11/2022

- Collaborated closely with the QA team to develop comprehensive test plans and executed detailed test cases, contributing to the identification and resolution of software issues.
- Played a key role in designing and implementing automated testing scripts using Junit,improving testing efficiency
- Conducted root cause analysis and actively participated in troubleshooting software issues.
- Write automated testes using Junit Generate automated data for testing multiple test cases.

Machine Learning intern at JAZZ

EFU House-Lahore,Pakistan

Internship - Business to Business(Python Developer)

07/2022 – 09/2022

- Conducted thorough data cleaning and preprocessing on large datasets, ensuring the quality of input data.
- Collaborated with the B2B team to develop predictive models using Python and scikit-learn.
- Analyzed customer behavior data to identify patterns, providing valuable insights for marketing,business strategy
- Assisted in the development of interactive dashboards in Tableau forreal-time analysis, enhancing data visualization and reporting capabilities.

EDUCATION

FAST National University of Computer and Emerging Sciences

Islamabad, Pakistan

Bachelor of Science in Computer Science

08/2019 – 06/2023

Courses included both CS (Programming,Databases,Artificial intelligence) and Business subjects

Punjab Group of Colleges

Gujrat,Pakistan

F.SC(pre-enginerning)

08/2016 – 06/2018

TECHNICAL SKILLS

Programming: Python, RUST, C++,CUDA ,Javascript

Developer Tools: Git ,Azure ,Web Services ,Maven ,Github, Figma,CI/CD,Git workflows

Python core : Pypy , NumPy, SciPy, Jupyter, Spyder, Dask,Pandas

ML: Scikit-learn ,TensorFlow ,Keras ,PyTorch ,MLflow

OPEN SOURCE CONTRIBUTION TO PROJECTS

- Working on **keras** Keras 2 TO Keras 3 incompatibilities 18467
- working on llamaindex Pack for implementation of research paper.
- Actively participated in discussions and issue triaging on **GitHub** for Rust Issue.
- Converting a **Keras 2** example so that it can run on **Keras 3** with any backend.

PROFESSIONAL CERTIFICATES

Grow With Google and IRM Scholarship Program

Coursera

10/2022 – 12/2022

- Google IT Automation with Python (Include Creation of email automation operating system scheduling).
- Google UX Design (Include Creation of High-Fidelity Designs and Prototypes in Figma Adobe XD).

Git Certified by GitKraken:

GitKraken

09/2022 – 11/2022

- Repository management, branch merging, conflict resolution, synchronization.

React Global Summit:

Geekle

11/2022 – 11/2022

- Component-based architecture, JSX syntax and rendering, Handling events and forms.

PROJECTS

Urdu Chat Bot API Base System(Flask,Numpy,TensorFlow)

Final Year Project

Natural Language Processing ,API creation

08/2022 – 05/2023

- Designed and developed an advanced Chatbot API-based system utilizing LSTM.
- Integrated TensorFlow to enable the chat bot respond to user input in Urdu.
- Implemented user authentication and session management during chat sessions.

Building Scalable Data Pipelines for Machine Learning

Data Scaling

Machine Learning+Data Scaling

09/2022 – 12/2022

- item Design and implement scalable data pipelines using Dask to preprocess and prepare dataset.
- item Incorporate best practices for data versioning, reproducibility to ensure the integrity of the ML workflow.

Developing Conversational AI Applications

AI

Conversational AI

01/2022 – 06/2022

- Build conversational AI applications using frameworks like Rasa to create chatbots, virtual assistants.
- Experiment with different dialogue management strategies, natural language understanding (NLU).
- Contribute to open-source conversational AI projects by sharing insights, contributing code, or participating in community discussions and events.

REFERENCES

Dr. Hafeez ur Rehman (Head of Department and Associate Professor at National University of Computer and Emerging Sciences) - hafeez.urrehman@nu.edu.pk

Dr. Muhammad Waqas (Associate Professor at National University of Computer and Emerging Sciences) - waqas.ali@nu.edu.pk

Hayley Spire (Redi school of digital Inergretion-germany) - hayley@redi-school.org