Shahzeb Khan

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Education

FAST-NUCES   Islamabad, Pakistan
MS in Artificial Intelligence

Islamia College, Peshawar   Peshawar, Pakistan
BS in Computer Science

Experience

FAST-NUCES   Peshawar, Pakistan
Lecturer (Department of AI)   Jan 2023 - Present

- Teaching subjects that includes
    1. Artificial Intelligence
    2. Machine Learning
    3. Natural Language Processing
    4. Knowledge Representation and Reasoning

- Supervising final year projects of different groups that includes
    1. Automation of image editing using AI.
    2. AI-Tutor: Personalized Learning with Advanced Language Models in Local Languages
    3. Travel AI: Ai powered solutions for your traveling needs. **(Acquired by Govt. of KPK)**
    4. German Mastery with AI Chatbot and Roman Urdu: A1-A2 Proficiency.
    5. Smart Pillow: Using AI for posture correction **(Fully Funded by Gov. of Pakistan)**
    6. RAD: Real-Time Audio Call Scam Detection.
    7. Physics informed Neural Networks for Spaghetti Bridge Weight Prediction **(Fully Funded Funded by ORIC-FAST)**
    8. Intelligent Bot: Data Retrieval System by Natural languages

BlueScarf.ai   Peshawar, Pakistan
Team Lead (Large Language Models division)
- Leading the group of Ai engineers in R&D.
    - Elevated to project manager role, honing leadership, communication, and team-building skills.
    - Assigned as project manager for the AI support chatbot project.
    - Leading a team to develop a comprehensive product, with a strategy to release submodels as services incrementally.
- Developing use-case based LLMs for different clients.
- Deploying online as well as local solutions which benefits customers having privacy issues.

XFlow Research   Islamabad, Pakistan
Artificial Intelligence Consultant
- Enabling the company to integrate AI based solutions for daily based operations.
- Based on analysis, develop and propose solutions that align with the client's objectives.
- Creating solution workflow to address problems.
- Implementing the proposed solutions, providing guidance, training, and ongoing support.
- Mostly focused on automation with Generative AI.
- Mostly targeting areas such as NLP, Voice Recognition, AI in Cyber Security etc

Planet Beyond   Islamabad, Pakistan

Lead AI Engineer

- Work on different R&D projects at (Higher Summit) as Lead developer (AI/NLP).
- Worked on developing chatbots for developing Tech Ed based solutions
- Understanding and implementing deep learning models for Text Generation and summarizations.
- Working with LLM's, Fine-tuning and training it on custom datasets(Text Books) and user feedback
- Worked with different DevOps teams for deployment of NLP models.
- Created interactive web-interface for end users.
- Debugging the issues faced by the end users and constantly ensured the smooth flow.

<u>Domain-Expert Talks/Activities</u>

- Invited by **National Accountability Bureau (NAB-KP)** to deliver a talk on "**Artificial Intelligence: New Dimensions for White-Collar Crime Investigation**"
- Invited by **Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)** to deliver a talk on "Understanding Natural Language Processing: How it can bring ease in our lives"
- Invited at Udaan **(Powered by Google**: An ideathon that aims to empower and support female students in unleashing their entrepreneurial spirit, fostering innovation, and solving societal problems.) as a panel guest.
- **Co-PI** in project **(Bridging Mathematics and Machine learning: PINNs for Direct and Inverse Problems)** funded by **ORIC-FAST**

<u>Skills & Interests</u>

Technical: Like to work in AI,ML, NLP, Computational Intelligence, AI in Health,Cyber etc
Language: Fluent in English, Urdu, Pushto
Interests: Like to play competitive Esports, Badminton and Cricket

<u>Recommendations</u>

Dr. Mirza Omer Beg
Professor
Dr.Beg was my teacher as well as my mentor in the field of NLP. He did his Doctorate from University of Waterloo and is currently working as a senior director at Afiniti. I also had a privilege to work with him in his lab (AIM Lab) as a graduate research student and Administrator. Letter of recommendation can also be provided on request.
Email: omer.beg@nu.edu.pk | Phone number: (+92) 111-128-128

Dr. Hasan Mujtaba
Professor
Dr. Hasan was my teacher as well as my mentor in the field of Evolutionary computation. He did his postdoc from University of Nottingham and is currently serving as Head of Schools (HOS) at FAST-NUCES Islamabad Campus. I also had a privilege to conduct my MS Research thesis under his supervision. Letter of recommendation can also be provided on request.
Email: hasan.mujtaba@nu.edu.pk | Phone number: (+92) 111-128-128