



Zubair Khaliq

AI ENGINEER

A passionate AI researcher and engineer with a strong academic foundation and a knack for solving complex problems. Proven ability to drive research projects from conception to publication, along with hands-on experience in applying AI techniques to real-world problems. Committed to pushing the boundaries of artificial intelligence, I thrive in dynamic, collaborative environments where innovation is valued. My goal is to contribute to cutting-edge AI projects that have a positive impact on society while continuously expanding my knowledge in this exciting field.

Contact

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Education

2022

P.hD Computer Science

University of Kashmir

2016

Masters in Computer Application

University of Kashmir

Publications

- Using deep learning for selenium web UI functional tests: A case-study with e-commerce applications
- Transformers for GUI Testing: A Plausible Solution to Automated TestCase Generation and Flaky Tests
- A deep learning-based automated framework for functional UserInterface testing
- Artificial Intelligence in SoftwareTesting : Impact, Problems,Challenges and Prospect
- Model-Based Framework for exploiting sensors of IoT devices using a Botnet: A case study withAndroid

Certifications

- Deep Learning Specialization
- Sequence Models
- Convolutional Neural Network
- Structuring Machine Learning Projects
- IBM Data Science Professional Certificate
- Databases and SQL for Data Science
- Python for Data Science and AI
- Data Science Methodology
- Essential Math for ML: Python Edition
- The Data Scientist's Toolbox
- Digishock 2.0: Machine Learning for Beginners
- Text Analytics 101
- Data Science Orientation
- Data Analysis with Python
- Data Visualization with Python

Experience

2019 - 2023

University of Kashmir | North Campus Delina Baramulla

Research Engineer (P.hD)

Conducted cutting-edge research in the field of Artificial Intelligence, with a focus on developing Automated framework for UI testing of Applications. Used State-of-the-Art object detection models like Faster R-CNN, RetinaNet, EfficientDet, VarifocalNet, DETR, Yolov5 to detect the UI components from UI pages. Applied pre-processing methods to images of the UI to enhance text detection model's performance using tesseract. Finetuned LLM models like GPT-2, T5, and GPT-3 and created a model to translate UI element descriptions to test cases using self-compiled dataset. Collaborated with interdisciplinary teams, including professors, fellow researchers, and graduate students, to drive research projects forward. Published 5 high-quality research papers in renowned conferences and journals.

2023 - 2024

Saalas | Sopore, Baramulla, Jammu and Kashmir, India

AI Engineer

Worked as part of the AI team in an e-commerce platform specializing in food delivery. Leveraged machine learning and AI techniques to enhance customer experience and optimize delivery operations. Contributed to the development of recommendation algorithms. Collaborated with software engineers to integrate AI-driven features into the Saalas platform, improving user engagement and retention.

2017 - 2018

University of Kashmir | North Campus Delina Baramulla

Research Assistant

I addressed the growing threat of IoT botnets by designing a modular framework that's communication channel agnostic. This framework, featuring an enhanced centralized architecture and Domain Fluxing Technique, safeguards IoT device privacy from malicious exploitation. The research covered design, command structures, capabilities, intrusion analysis, and a proof-of-concept Botnet, contributing to IoT security.

Skills

- Programming Languages: Python, Java, C++
- Machine Learning Frameworks: TensorFlow, PyTorch, scikit-learn
- Deep Learning: Neural Networks, CNNs, RNNs, GANs
- NLP: Text classification, sentiment analysis, Finetuning, Prompt Engineering
- Data Analysis: Pandas, NumPy, Matplotlib
- Tools: Git, Jupyter, Docker
- Research Methodology: Experiment design, statistical analysis

Reference

Dawood Ashraf Khan

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Farooq S

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