



Abbas Shafi

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Gender: Male **Date of birth**: 29/12/2000 **Nationality**: Pakistani

WORK EXPERIENCE

[12/2023 – Current]

Data Engineering and Machine Learning Intern

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City: Peshawar

Country: Pakistan

- Currently working on Generative AI Chatbot for UK based food delivery app.

[10/2023 – 11/2023]

Data Science Intern

CodSoft

- Worked as a data science intern where I used Python, Numpy, Pandas, Seaborn and scikit-learn to perform statistical data analysis and develop machine learning models.
- Assisted in data preprocessing, exploratory data analysis, and model development.
- Developed insights and provided actionable recommendations to the team based on statistical data analysis.

[11/2022 – 12/2022]

Data Science Intern

The Sparks Foundation

- Worked on with a team of data scientists and business analysts to analyze large datasets and extract insights to support decision-making.
- Developed machine learning models to predict business outcomes and optimize processes.
- Assisted with the design and implementation of data-driven solutions for a variety of business problems.

EDUCATION AND TRAINING

[2019 – 2023]

Bachelor of Science in Computer Science

The University of Agriculture <https://www.aup.edu.pk/>

City: Peshawar

Country: Pakistan

Final grade: 3.49/4.0

Final Year Project: Vehicle Count, Detection and Classification using Yolov4 and DeepSort

Major Subjects Studied:

- Artificial Intelligence
- Probability & Statistics
- Linear Algebra
- Calculus

[2021 – 2022]

Certified Artificial Intelligence Developer

Presidential Initiative for Artificial Intelligence and Computing (PIAIC) <https://www.piaic.org/>

Country: Pakistan

Final grade: A

Major Subjects Studied:

- Python
- Machine Learning
- Deep Learning
- Computer Vision
- Natural Language Processing

[06/2021 – 12/2021]

Artificial Intelligence (Deep Learning and Machine Learning)

Govt of Pakistan National Vocational & Technical Training Commission (NAVTC) <https://navttc.gov.pk/>

Country: Pakistan

Final grade: A+

Major Technologies Studied:

- Python
- Machine Learning
- Deep Learning

DIGITAL SKILLS

Python [Pandas/NumPy, Matplotlib, Seaborn] | Data Analysis [Preprocessing, Visualization] | Machine Learning [scikit-learn] | Deep Learning [PyTorch, Tensorflow] | NLP & CV [NLTK, Spacy, Hugging Face] | Generative AI [LLMs]

PROJECTS

[11/2023 – 01/2024]

Personalized Restaurant Recommendations Based on Visit History

- Developed a Personalized Restaurant Recommendation System combining **collaborative Filtering** and **content-based filtering** methods.
- Conducted initial exploratory data analysis with **Python**, **NumPy**, and **Pandas**, followed by applying **NLP** techniques using **NLTK** for advanced data cleaning and preparation.
- Successfully deployed the system, which resulted in a notable increase in user retention and positive feedback.

[07/2023 – 10/2023]

Analyzing Chest Radiographs for Pneumonia Detection

- Developed an AI-based diagnostic tool for detecting pneumonia from chest radiographs.
- Utilized **Python** with **Keras** for building and training deep learning model **Convolutional Neural Networks**.
- Integrated the model with a backend and deployed it on **AWS**.

[01/2023 – 06/2023]

Vehicle Count, Detection and Classification using Yolov4 and DeepSort

- Developed and implemented a vehicle analysis system using **Yolov4** and **DeepSort** for detection, counting, and classification.
- Built the system using **Computer Vision** in **Python**, with **TensorFlow** for enhanced model training and performance.
- Successfully deployed the solution for traffic monitoring, markedly improving accuracy and operational efficiency.

CERTIFICATIONS

[01/2024]

Generative AI with Large Language Models

Issuing Organization: DeepLearning.AI

[12/2023] **Generative AI for Everyone**

Issuing Organization: DeepLearning.AI

[09/2021] **Data Science & Machine Learning under Digital Skills for KP initiative**

Issuing Organization: UNDP and Cyber Vision Pakistan

[12/2020] **Programming for Everybody (Getting Started with Python)**

Issuing Organization: University of Michigan

[11/2020] **AI for Everyone**

Issuing Organization: DeepLearning.AI

[09/2020] **Digital Literacy**

Issuing Organization: Digiskills.pk

[03/2012] **International Kangaroo Mathematics Contest 2011**

Issuing Organization: Inter-School Math Olympiad organized by Pakistan Science Foundation & PakTurk International Schools & Colleges.

PUBLICATIONS

Publications

Jing-wen Xu, **Shafi Abbas**, Hai-feng Xiu, Kun Ma, Ya-tian Pan, Wang-kai-ning Lan, mZhan sheng Mao & Dan Liu. 2023. Effects of Different Materials on Desalting and Fertility of Coastal Saline Soil in Zhejiang Province, China. Journal of water, air, soil pollution. 234(407). Impact factor of Journal: 2.98.

Link: <https://doi.org/10.1007/s11270-023-06346-0>

Ying Wang; Zhansheng Mao, Ph.D; Hexian Jin; **Abbas Shafi**; Zhenyu Wang. 2023. Spatial interpolation of attributes from urban green space for prediction using neural networks.

Impact factor of Journal: 1.60.

Submitted for publication to Journal of Urban Forestry & Urban Greening

Ying Wang a, ZhanSheng Mao , Hexian Jin, **Abbas Shafi**, Zhenyu Wang, Dan Liu. 2024. Plant growth mapping of green field-Rectification of aerial ndvi images based on deep learning networks.

Submitted for publication to Journal

LANGUAGES

Languages

- English
- Urdu
- Pashto