Moeez Bin Nadeem

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Date of birth: 06/02/2001 **Nationality:** Pakistani

ABOUT MYSELF

I am an enthusiastic and empathetic software engineering student, passionate about energizing forward-thinking organizations. With a keen interest in machine learning and data science, I'm committed to honing my analytical skills and contributing to groundbreaking projects. My academic journey has given me a strong foundation in programming and problem-solving, which I approach with creativity and adaptability. I thrive in collaborative environments that celebrate diverse perspectives and drive innovation. In this dynamic era of digital technology, I'm eager to embrace challenges that push the boundaries of what's possible. Let's create the future together and make a lasting impact with cutting-edge technology.

EDUCATION AND TRAINING

[2020 – 2024] **BS Software Engineering**

Riphah International University, Faisalabad , Pakistan

[2017 – 2019] **Intermediate In Computer Science**

Board of Intermediate and Secondary Education, Faisalabad, Pakistan

[2016 – 2017] **Matriculation (Computer Science)**

Board of Intermediate and Secondary Education, Faisalabad, Pakistan

WORK EXPERIENCE

[10/05/2024 – Current] **Senior Python Lead**

XPL Services

[2022 – 11/04/2024] **CTO**

Dev X | One-Stop Solution

[2021 – 2023] **Python Developer**

Freelancer

[2019 – 2022] **Wordpress Developer**

Freelancer

PUBLICATIONS

[2024] **Automated Brain Tumor Detection via Transfer Learning Techniques**

Moeez Bin Nadeem, Anjum Ali, Muhammad Waqas Aziz, Muhammad Umar Ghani, Ghulam Mustafa, & Ahmad Bilal Farooq. (2024). Automated Brain Tumor Detection via Transfer Learning Techniques. *Journal of Computing & Biomedical Informatics*, *7*(01), 501–514. Retrieved from https://jcbi.org/index.php/Main/article/view/477

CERTIFICATION

[2022 – 2023] **Machine Learning Specialization**

- Supervised Machine Learning: Regression and Classification
- Advanced Learning Algorithms
- Unsupervised Learning, Recommenders, Reinforcement Learning

[01/09/2023] **Exploratory Data Analysis for Machine Learning**

[19/09/2023] **Introduction to Tensor Flow for Artificial Intelligence, Machine Learning, and Deep Learning**

[2023] **Fundamentals of Visualization with Tableau**

[2022 – 2023] **Python Crash Course**

PROJECTS

Brain Tumor Detection via Deep Learning

- Developed a robust deep-learning model.
- Applied advanced transfer learning techniques for significant performance improvements.
- Achieved higher accuracy with optimized parameters.
- Engineered the speed model, ensuring real-time applicability.
- Enhanced precision in brain tumour detection.
- Reduced false positives and negatives, demonstrating system reliability.
- Showcased strong AI and deep learning expertise through critical thinking in model development and optimization

Retina Scan: An application to detect Diabetic Retinopathy

- Procured dataset from Kaggle, curated and uploaded by Google.
- Trained a base model for diabetic retinopathy detection.
- Applied advanced transfer learning using ResNet-152 and EfficientNet architectures for improved model performance.
- Developed a Python Django web application for seamless implementation.
- Designed the model to classify retinal scans into two classes: one with diabetic retinopathy and the other without.
- Demonstrated leadership skills in coordinating the project team.
- Implemented a user-friendly web app interface for efficient utilization

Early Stage Skin Cancer Detection

- Implemented class balancing, augmentation, and thorough data preprocessing techniques for dataset enhancement.
- Trained a base model for initial detection capabilities.
- Applied transfer learning using the EfficientNet architecture to enhance the model's performance.
- Designed and will implement the solution in a Python Django web app.
- The model accommodates multiple classes for accurate and early detection of various skin cancer stages.

HONOURS AND AWARDS

[09/2022] **VISIT TO İSTANBUL & MARMARA ÜNIVERSITESI Awarding institution:** Riphah International University, Faisalabad

I had the privilege of joining a special group invited to Istanbul, Turkey

LANGUAGE SKILLS

Mother tongue(s): Urdu **Other language(s):** English

REFERENCES

Dr Shahzad Akbar

Associate Professor, Department Of computing

Riphah International University, Faisalabad, Pakistan

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