

Muhammad Ali Ahson

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SUMMARY

- I'm Muhammad Ali Ahson, specializing in AI/ML. I've interned at DataInsight Lab and Lancers Pvt Ltd, gaining hands-on experience. I'm skilled in various ML techniques and have a passion for developing AI solutions.

EXPERIENCE

ML/AI-Intern

Nov 2023 - Jan 2024

Lancers Pvt Ltd, Islamabad, ISB

- I tackle complex AI challenges, perform data science and machine learning tasks and create insightful reports from the data.

ML/AI-Intern

Jan 2023 - Aug 2023

DataInsight Lab, Islamabad, ISB

- Created digital models for converting hospital patient transcripts into digital format using YOLO, RCNN, and OCR.
- Improved model accuracy by 15% through data preprocessing and hyper-parameter tuning.

Fiverr

Present

AI/ML Engineer and Database Engineer

- Worked with 10+ clients providing them with the best AI solutions.
- Worked as a Database Engineer, performing database development, and data manipulation.

PROJECTS

AN "OPEN CV" K-MEAN CLUSTERING PROGRAM

- Developed an image segmentation program using K-Mean clustering and OpenCV, aimed at medical applications.

SUPERHERO NAME GENERATOR WEB APP ON FLASK

- Developed a model utilizing NLP and deep learning to generate unique superhero names, achieving an accuracy of 65%.
- The model has generated over 8,800 unique names, used in online forums and social media platforms.

Neural Network From Scratch in C++ using Pipes

- Demonstrated parallel computing by developing an optimized neural network in C++ with 7 processes and 8 threads, achieving a 75% performance improvement.

MNIST Handwritten Number Generation WebApp on Flask

- Optimized GAN Training to achieve significant discriminator and generator loss improvements on the MNIST dataset.
- Ensured robust network design, achieving 98% accuracy on generated images and a 25% computational efficiency improvement.

SKILLS

- **Programming Languages:** C++, C, Shell, Python
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Libraries/Frameworks:** TensorFlow, Pytorch, Scikit-Learn, pandas, numpy, Seaborn, matplotlib, pycm3, OpenCV
- **Tools:** Power BI, Rapid Miner
- **Other Skills:** IT Support, Problem-Solving, Leadership, Creativity, Teamwork

EDUCATION

BS in Computer Science

Sep 2021 - Present

NUCES (FAST), Islamabad, Pakistan

- **Academic Courses:** Programming Fundamentals, Object-Oriented Programming, Data Structures, Design and Analysis of Algorithms, Database Systems, Statistical Modeling, Operating Systems, Computer Organization and Assembly Language, Unix Tools, and Digital Marketing.

ONLINE PRESENCE

- **Portfolio:** [aliahson's portfolio](#)
- **LinkedIn:** [linkedin.com/in/muhammadaliahson](https://www.linkedin.com/in/muhammadaliahson)
- **Medium:** medium.com/muhammadaliahson
- **GitHub:** github.com/muhammadaliahson
- **Kaggle:** kaggle.com/muhammadaliahson

CERTIFICATIONS

- **Database Design and Basic SQL in PostgreSQL** Jan 2023
University of Michigan (Coursera)
- **AI For Everyone** May 2023
DeepLearning.AI (Coursera)
- **Linear Regression and Modeling** Dec 2023
Duke University (Coursera)