Muhammad Ali Ahson

☎ +92 3247748900 | ✉ aliahson56@gmail.com | Islamabad, Pakistan

SUMMARY

- Dedicated AI specialist with hands-on experience in artificial intelligence and a robust background in machine learning frameworks such as scikit-learn and TensorFlow. Committed to advancing AI technologies and continuously expanding expertise in this dynamic field.

EXPERIENCE

Data Science Intern   July 2024 - Aug 2024
Atomcamp, Islamabad, ISB

- Worked on real time price prediction tasks for banking sectors so they can make better decisions.
- Worked on LLMs to make tools for Text generation, Blog writing, Sentiment-Analysis and Images generation.

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.

AI-Intern   Jan 2023 - Aug 2023
DataInsight Lab, Islamabad, ISB

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

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.

SKILLS

- **Programming Languages:** C++, C, Shell, Python
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Libraries/Frameworks:** Tensorflow, Scikit-Learn, pandas, numpy, Seaborn, matplotlib, pymc3, OpenCV, langchain, transformers, Flask
- **Tools:** Power BI, Rapid Miner, Huggingface
- **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, Digital Imaging Processing, Natural Language Processing and Generative AI.

Online Presence

- **Portfolio:** https://aliahsonportfolio.netlify.app
- **LinkedIn:** https://www.linkedin.com/in/muhammadaliahson/
- **Medium:** https://medium.com/@i212535
- **GitHub:** https://github.com/MuhammadAliAhson
- **Kaggle:** https://www.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)