

# NIMRA ASLAM

DATA SCIENTIST, AI/ML  
ENGINEER

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## OBJECTIVE

Skilled Machine Learning Engineer / Data Scientist with over 3 years of experience in developing and deploying machine learning models. Proficient in machine learning principles and AWS services. Seeking to leverage expertise in data science and software engineering to contribute to an innovative startup environment.

## TECHNICAL SKILLS

- **Programming Languages:** Python (Advanced), R
- **Machine Learning Libraries:** scikit-learn, TensorFlow, PyTorch, XGBoost
- **Machine Learning:** Model Development, Evaluation, Feature Extraction
- **Deep Learning:** Model Development, Evaluation
- **NLP:** Language Models (LLMs) ,Tokenization, Embedding’s, Attention Mechanisms, Transfer Learning, Fine-Tuning
- **Cloud Platforms:** AWS (Sage Maker, Bedrock), Azure, GCP
- **Data Manipulation:** pandas, NumPy, SQL, MySQL, PostgreSQL
- **Data Visualization:** matplotlib, seaborn, Power BI, Tableau
- **Data Processing:** Data Preprocessing, Feature Engineering, Data Augmentation
- **Tools:** Docker, Jenkins, Git
- **Software Engineering:** Clean Code, Maintainable Code, Documentation
- **Other Skills:** Problem-Solving and Critical Thinking, Teamwork ,Project Management, Communication

## CERTIFICATIONS

- Machine Learning, Deep Learning Fundamentals, Data Science | iNeuron, 2023
- Generative AI | iNeuron, 2024
- Python Essentials | Virtual University Pakistan, 2022
- Digital Marketing | e-Rozgar Punjab, 2022

## EXPERIENCE

### Data Scientist, Upwork | 2020 – Present

- Designed, developed, and deployed machine learning models and algorithms. Implemented and evaluated models using metrics such as precision, recall, F1-score, confusion matrix, ROC curves, and AUC.
- Addressed overfitting and under fitting through techniques like cross-validation, regularization, and hyper parameter tuning.
- Worked with large language models (LLMs) and implemented concepts such as tokenization, embedding’s, transfer learning, and fine-tuning.
- Utilized AWS services like Sage Maker and Bedrock for model training, deployment, and management.

### Data Analyst, IQANTI | 2019

- Conducted comprehensive data analysis to support strategic marketing initiatives, resulting in a 15% increase in campaign effectiveness.
- Designed and developed interactive dashboards using Power BI to visualize key performance metrics, enhancing decision-making processes.
- Improved data accuracy by 10% through rigorous data cleaning and validation, ensuring the reliability of business insights

### Researcher, COMSATS University Islamabad | 2022 - 2023

- Conducted innovative research on the utilization of horizontal magnetic fields in the thermophysical convective flow of nanofluid.
- Published findings in peer-reviewed journals, contributing to significant advancements in the field of nanofluid research

## PROJECTS

### Chicken-Disease-Classification System | March 2024

- Developed a convolutional neural network (CNN) model to classify chicken diseases with 92% accuracy.
- Implemented the solution using TensorFlow and Flask, resulting in an efficient web deployment.
- Conducted extensive data preprocessing and augmentation to enhance model robustness.

### Build Medical Chatbot Using Generative AI (LLaMA2) | June 2024

- Created a medical chatbot leveraging generative AI and LLaMA2, providing accurate and context-aware responses.
- Improved user experience through advanced natural language understanding and response generation.
- Deployed the chatbot on a cloud platform, ensuring scalability and reliability.

### Deep-Learning-Project-on-Kidney-Disease-Classification | April 2024

- Applied deep learning techniques, including CNNs and transfer learning, to classify kidney diseases with high accuracy.
- Utilized advanced image processing techniques to improve model performance and diagnostic precision.
- Collaborated with healthcare professionals to validate the model's effectiveness in real-world scenarios.

### Machine Learning Project on Audio Classification | February 2024

- Developed and trained machine learning models for audio classification tasks, achieving significant accuracy improvements.
- Employed feature engineering and model optimization techniques to enhance performance.
- Integrated the models into a user-friendly application for real-time audio analysis.

## EDUCATION

### Master’s in Mathematics, COMSATS University Islamabad | 2021-2023

- CGPA: 2.79

### Bachelor’s in Mathematics, COMSATS University Islamabad | 2018-2021

- CGPA: 3.00