Abdullah Ikram Ullah Tabassam

Machine Learning Engineer | Electrical Engineer

[](https://linkedin.com/in/abdullah-ikram-ullah-tabassam-1103b021b)

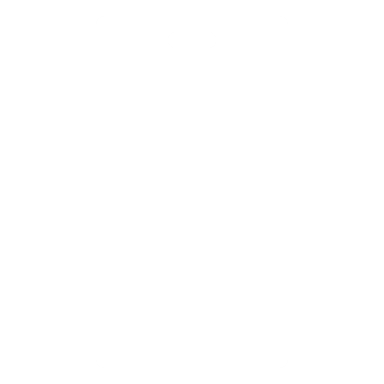
**[Icon

Description automatically generated](mailto:abdullahdar2017@gmail.com)**abdullahdar2017@gmail.com

Manchester, England

[](mailto:abdullahdar2017@gmail.com)**[Icon

Description automatically generated](https://linkedin.com/in/abdullah-ikram-ullah-tabassam-1103b021b)**linkedin.com/in/abdullah-ikram-ullah-tabassam-1103b021b

**+44-7309-117608

[](https://github.com/AbdullahTabassam)

**[Icon

Description automatically generated](https://github.com/AbdullahTabassam)**github.com/AbdullahTabassam

[Logo

Description automatically generated](https://abdullahtabassam.github.io/)**[Icon

Description automatically generated](https://abdullahtabassam.github.io/)**abdullahtabassam.github.io/

**PROFILE SUMMARY**

I am an accomplished, highly motivated, AI professional with a proven track record of success. With an MSc in AI from a renowned university, I possess a solid understanding of machine learning, NLP, and computer vision. My exceptional problem-solving skills and attention to detail enable me to provide innovative solutions to complex problems. As a self-starter, I have gained practical experience through course works and personal projects, delivering ground-breaking solutions. Now, I am eager to leverage my expertise to contribute to an organization's AI initiatives and deliver tangible results.

**EDUCATION**

**Masters in Artificial Intelligence**

**(Machine Learning)**

Liverpool John Moores University, Liverpool, England.

***September 25, 2022 – Present***

**Project and Thesis:** In-flight Bird Detection, Bird Counting, Migratory Path, and Behaviour analysis

**Bachelors in Electrical Engineering**

**(Tele-communication)**

Institute of Space Technology, Islamabad, Pakistan.

***September 13, 2017 – August 25, 2021 CGPA 3.13/4.00***

**Project and Thesis:** IoT based Remote Health Monitoring

**SKILLS & INTERESTS**

Artificial Intelligence | Computer Vision OpenCV | Object Detection | Object tracking | Vision-based ML | Deep Learning | Machine Learning | Docker | MLOps | Hadoop | SQL | Spark | NumPy | Pandas | Python | Java | C - C++ Visual Studio | CUDA (CuDF CuML) | ETL | Data Science Libraries | Deep learning frameworks (e.g. TensorFlow - Keras - PyTorch) | Development | Cloud Infrastructure | Tableau | Data Visualization – Matplotlib Pyplot | Optimization | Predictive Modeling | Model Development | Neural Networks | Deep Neural Networks | Natural Language Processing | Extracting Meaningful Insights | Sklearn | Transfer Learning | ML Models, Architectures and Frameworks | Statistics | Probability | Data Mining | Big Data | Real-world datasets | Data Analysis and Manipulation | Data Cleaning | Data Modeling | Hyperparameter Tuning | Management | Problem Solving Skills | Communication Skills | Teamwork | Collaboration | Data structures | Unsupervised learning | Programming skills

**EXPERIENCE AND PROJECTS**

**Computer Vision**

*September,2022 – May 2023*

**In-flight Bird Detection, Bird Counting, Migratory Path, and Behaviour analysis**

Liverpool John Moores University *Present*

**Details**

* Successfully managing a project involving complex tasks like bird detection, counting, and behaviour analysis.
* Developing a detailed project plan and timeline to ensure timely completion of the project.
* Producing an extensive research report on the project, highlighting the significant contribution to the field of ornithology.

**End-to-End Object Detection Web-Application**

**Details**

* Managed the entire project, from designing and developing the web application to integrating the model and database.
* Developed a user-friendly and efficient Flask web application for object detection, resulting in high accuracy and quick processing.
* Effectively used Docker to containerize the app, ensuring scalability and easy deployment.

**Bird Species Detection**

**Details**

* Managed the entire process of cleaning, labeling, preprocessing, and training the image dataset for object detection.
* Successfully implemented transfer learning and achieved high accuracy in UK garden bird detection using TF2 Object Detection API.
* Produced an extensive report on the project, including the methodology and findings, showcasing strong technical writing skills.

**Sign Language Detection**

**Details**

* Implemented transfer learning techniques to a pre labeled dataset of hand images and achieved high accuracy in hand signs detection using TF2 Object Detection API and produced an extensive report on the project, including the methodology and findings.

**Hand Gesture Volume Control**

**Details**

* Utilized Mediapipe library for computer vison to detect landmarks on hand joints and efficiently controlled the volume using the hand gestures.

**Machine learning**

*September,2022 – May 2023*

**Audio Signal Analysis to detect Anti-Social and Criminal Behaviour**

**Details**

* Managed the project from data collection to model training and optimization.
* Designed custom neural networks and performed hyper-parameter optimization to achieve high accuracy in detecting anti-social and criminal behavior from audio signals.
* Produced a detailed report on the project, highlighting the significant contribution to the field of audio signal processing.

**Skeletal Analysis for Identification of Birds from bones**

**Details**

* Managed the project independently, cleaning and preprocessing the skeletal measures of birds to classify various bird species from their bone measurements.
* Developed a robust classification model, achieving high accuracy in species identification.
* Produced a research paper on the project, showcasing strong academic writing skills.

**Particle classification using LHC dataset**

**Details**

* Managed the project from data exploration to model design and implementation.
* Implemented various techniques to reduce dimensionality and designed a deep neural network for efficient particle classification.
* Produced a technical report on the project, highlighting the findings and contributions to the field of particle physics.

**Natural Language Processing**

*September,2022 – May 2023*

**OpenAI Lang Chain Model**

**Detail**

* Leveraged the OpenAI API to use large language models like GPT 3.5 to create a web application to provide custom diet and workout plan to the users.

**SMS Ham/Span Detector**

**Detail**

* Successfully applied NLP concepts like cleaning, tokenization, lemmatization, and vectorization, leveraging the NLTK library to achieve high accuracy results.

**Electronics Engineer**

Service Care – Part of Clipper Logistics

*Feb 2022 – Jun 2022 Oldham*

**Achievements**

* Managed and supervised a team of technicians, specialized in fault finding, testing, and repairing appliances from reputable companies such as Amazon, Shark, Hoover, Tefal, and Panasonic, while introducing innovative testing and repair techniques that improved efficiency and reduced repair times by 20%.

**Engineering Intern**

**General Fan Company (GFC) Ltd.**

*Jan 2021 – Feb 2021 Gujrat*

**CERTIFICATES**

**IBM**

* Data Analysis with Python.
* Data Science Methodology
* Databases and SQL for Data Science with Python
* Machine Learning with Python
* Python for Data Science, AI & Development
* What is Data Science

**Microsoft**

* Introduction to Microsoft Azure Cloud Services
* Azure Machine Learning for Data
* Create Machine Learning Models in Microsoft Azure
* Build and Operate Machine Learning Solutions with Azure

**Meta/Facebook**

* Django Web Framework

**LinkedIn**

* NLP with Python for Machine Learning
* Transformers Text Classification for NLP Using BERT

**ACHIEVEMENTS**

* Published an open access research paper on “**MLOPS: A Step Forward to Enterprise Machine Learning**”. (2023)
* Completed all modules with **distinctions** during MSc. in AI. (2022-2023)
* Achieved **A** grade for the BSc. final project: “**IoT-based Remote Health Monitoring**”. (2021)