Abdullah Ikram Ullah Tabassam

Machine Learning Engineer | Electrical Engineer

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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 that have garnered industry recognition. Now, I am eager to leverage my expertise to drive an organization's AI initiatives and deliver tangible results.

EDUCATION

Masters in Artificial Intelligence
(Machine Learning)

Liverpool John Moores University, Liverpool, England.

Sep 25, 2022 – Present

Courses (All courses completed with Distinctions)

- Foundations of Machine Learning
- Deep Learning Concepts & Techniques
- Accelerated Machine Learning
- Advanced Topics in Deep Learning
- Enterprise Machine Learning
- Research Methods

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

Skills gained

- Computer vision techniques. (e.g., object detection, image classification, facial recognition.)
- Natural language processing techniques. (e.g., sentiment analysis, named entity recognition, language translation.)
- Deep learning frameworks. (e.g., TensorFlow, Keras.)
- Machine learning algorithms. (e.g., linear regression, decision trees, neural networks, Scikit-learn.)
- Python programming language and associated libraries.
- NumPy and Pandas.
- Data Visualization (Matplotlib / Pyplot, Tableau)
- Spark distributed computing framework.
- CuDF and CuML. (GPU-accelerated machine learning libraries.)
- Docker containerization technology.
- MLOps methodologies and tools.
- Data management, Problem-solving, Communication, Creativity, and Collaborative skills

Bachelors in Electrical Engineering

Institute of Space Technology, Islamabad, Pakistan.

Sep 13, 2017 – Sep 13, 2021   *CGPA 3.13/4.00*

Project and Thesis: IoT based Remote Health Monitoring

FSc. Pre-Engineering

Zamindar Post Graduate College, Gujrat, Pakistan.

Jul 26, 2015 – Sep 12, 2017   *Marks 947/1100*

Matriculation

Dar -e-Arqam Model High School, Gujrat, Pakistan.

Mar 10, 2013 – Jul 25, 2015,   *Marks 982/1100*

EMPLOYMENT

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%

Virtual Assistant
AMZIA Ltd.

Jul 2021 – Sep 2021   *Bolton*

Achievements

- By conducting thorough market research and analyzing data using Excel, I identified a high-profit potential product for the company, resulting in a 25% increase in revenue within the first quarter of launching the product. Additionally, by effectively communicating the data-driven recommendations to the senior management team through detailed reports and presentations, we were able to streamline the production process, resulting in a 15% decrease in production costs. This not only increased the profitability of the company but also helped to establish its position as a market leader in the industry.

Engineering Intern
General Fan Company (GFC) Ltd.

Jan 2021 – Feb 2021   *Gujrat*

Achievements

- Demonstrated exceptional organizational skills by managing electronic item records, implementing a maintenance tracking system that increased equipment uptime by 15%, and negotiating better deals with suppliers, resulting in a 10% reduction in procurement costs. These efforts resulted in streamlined operations, improved inventory tracking, and significant cost savings for the organization.

Engineering Intern
National Institute of Electronics

Jul 2019 – Aug 2019   *Islamabad*

Achievements

- Demonstrated strong technical skills by gaining experience in designing high-performance antennas for wireless communication systems using CST Studio Suite software,

designing and fabricating functional PCBs for IoT projects, and effectively managing the team of interns to ensure timely completion of projects. These efforts contributed to the successful development of advanced technological solutions and the growth of the organization.

Skills

| Artificial Intelligence | Computer Vision | NLP | Deep Learning | Machine Learning | Docker | MLOps | Hadoop | SQL | Spark | NumPy | Pandas | Python | C/C++ | CuDF | CuML | ETL | Data Governance | Cloud Computing | Tableau | Business Intelligence | Data Visualization | Optimization | Predictive Modeling | Model Development | Algorithm Development | Neural Networks | Scikit-learn | Transfer Learning | ML Models, Architectures and Frameworks | Statistics | Probability | Data Mining | Big Data | Data Science | Data Analysis | Data Cleaning | Data Modeling | Hyperparameter Tuning | Micro-Controllers | Arduino | ESP-32 | MATLAB | Electronic Testing and Repairing | MS Office | Management | Problem Solving | Teamwork | Collaboration | Data structures | Unsupervised learning | Generative modelling |

Personal Projects

MSc. Artificial Intelligence

Annual Project (Present): In-flight Bird Detection, Bird Counting, Migratory Path, and Behaviour analysis
Details
- Successfully managed a project involving complex tasks like bird detection, counting, and behaviour analysis.
- Developed a detailed project plan and timeline to ensure timely completion of the project.
- Produced 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 web application for object detection, resulting in high accuracy and quick processing.
- Effectively used Docker to containerize the app, ensuring scalability and easy deployment.

Custom Object 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 object detection.
- Produced an extensive report on the project, including the methodology and findings, showcasing strong technical writing skills.

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.

BSc. Electrical Engineering

Final Year Project (BSc. EE): IoT Based Remote Health Monitoring System
Details
- Managed the project from data collection to report generation, developing a remote health monitoring system for patients.
- Successfully collected vital readings from patients and transmitted them to the cloud, generating a detailed report for the patients and their doctors.
- Produced a comprehensive project report, in form of a thesis, showcasing strong technical writing and project management skills.

Home Automation using ESP-32
Details
- Managed the project from start to finish, developing a home automation system using ESP-32 microcontrollers.
- Successfully integrated various home devices and controlled them using a smartphone application.
- Produced a detailed project report, showcasing strong technical writing skills.

Development of a Temperature Controlled Fan with an Alarm system
Details
- Managed the project, developing a temperature-controlled fan with an alarm system for emergency situations.
- Effectively used microcontrollers and sensors to design the system, ensuring accurate temperature control and emergency alerts.
- Produced a technical report on the project, highlighting the significant contribution to the field of temperature control systems.

Signal Analysis using MATLAB GUIDE
Details
- Managed the project independently, developing a MATLAB GUI for digital signal analysis.
- Effectively used MATLAB tools and techniques to develop a user-friendly GUI for signal analysis.
- Produced a comprehensive report on the project, showcasing strong technical writing skills.

Design and Development of Line Following Robot
Details
- Managed the project from start to finish, designing and developing a line-following robot using IR sensors.
- Successfully integrated various components to develop a functional robot.
- Produced a detailed project report, showcasing strong technical writing skills.

CERTIFICATES

- Certificate of course completion – IBM Data Analysis with Python.
- Certificate of course completion – IBM Data Science Methodology
- Certificate of course completion – IBM Databases and SQL for

Data Science with Python
- Certificate of course completion – IBM Machine Learning with Python
- Certificate of course completion – IBM Python for Data Science, AI & Development
- Certificate of course completion – IBM What is Data Science
- Certificate of working in ALTIUM Designer Workshop from Institute of Space Technology. (2018)
- Certificate of Acknowledgement from Institute of Space Technology in Marketing of IST youth Carnival. (2018)
- Certificate of Acknowledgement from Institute of Space Technology for event organizing and marketing at World Space Week. (2019)
- Certificate of Appreciation from National Institute of Electronics Ministry of Science and Technology, Government of Pakistan. (2019)
- Certificate of Acknowledgement from IST for organizing registration in TEDx Institute of Space Technology. (2019)
- Certificate of Appreciation from General Fan Company (GFC) Limited. (2021)

LANGUAGES

English
Full Professional Proficiency
Urdu
Native or Bilingual Proficiency
Spanish
Elementary Proficiency
Punjabi
Native or Bilingual Proficiency

INTERESTS

Sports | Socializing | Music | Photography | Sketching | Gaming | Crossword Puzzles