

# Mohammad Afzal

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## Objective

Enthusiastic computer science graduate skilled in Data Science, ML, statistical analysis, and visualization. Expertise in extracting, and interpreting insights from data. Seeking Data Scientist/ML role in an innovative, collaborative environment.

## Work Experience

- **Machine Learning Engineer and Data Scientist - Fiverr**

- February 2022 - August 2023
- I have experience working on different Fiverr projects, such as developing a Next Word Prediction using deep learning and convolutional neural networks (CNNs) + LSTM. Additionally, I acquired extensive knowledge about various machine/deep learning models used in supervised and unsupervised learning.

- **AI Intern — FasTech Systems (Private) Limited**

- June 2023 - August 2023
- Location: Sukkur, Pakistan
- Advancing Lung Cancer Detection via Image Segmentation and Augmentation and Elevated lung cancer detection through precise medical image segmentation and augmentation techniques. Refined methodologies harness image analysis proficiency for accurate results, holding promising healthcare implications.

- **Research Assistant — Norwegian University of Science and Technology**

- February 2023 - May 2023
- Location: Remotely
- Engaged in NLP-driven Malicious URL Detection. Leveraged advanced NLP analysis for dynamic URLs. Thorough URL cleaning fortified the model, effectively discerning between benign and malicious, thus elevating security.

## Education

### Sukkur IBA University

BS Computer Science August 2019 - July 2023

## Technical Skills

- Data Science/Machine Learning/Deep Learning
- Languages: Python, R, Java, C/C++, Spark
- Data Visualization: Tableau & Power BI
- Databases: MySQL, MongoDB, PostgreSQL, Google Firebase
- Web Development: HTML, CSS, Flask, Django, MERN Stack
- Packages & Frameworks: Scikit-learn, TensorFlow, Keras, PyTorch, Beautiful Soup, OpenAI API, PySpark
- Cloud Deployment & Containers: AWS Sagemaker, AWS EC2, Azure, Docker
- Analytical Thinking, Critical Evaluation, Collaborative Problem Solving, Adaptability

## Academic Projects

- **Live Music Recommendation System with advanced algorithms, Spotify API**, and an interactive web interface using Streamlit. Offers personalized music suggestions using a content-based and popularity-based hybrid approach. [Website Link: [lnkd.in/ewbPEFQJ](https://lnkd.in/ewbPEFQJ)]
- **Twitter Sentiment Analysis using Twitter API, Django, MERN Stack:** It Performs real-time sentiment analysis on live tweets sourced from Twitter using the Python Tweepy API. Utilize the TextBlob and Natural Language Toolkit (NLTK) Python libraries, including NLTK's Sentiment Vader SentimentIntensityAnalyzer, for sentiment analysis computations.
- **FYP: Employee Emotion Detection and Identification** - Emotion detection using CNNs & LSTMs. Real-time employee emotion classification. Facial image processing & temporal analysis. One-shot learning for employee identification. Web app for real-time emotion analysis.
- **Fake New Classification:** It creates a predictive model to discern real from fake news articles. It involves data collection, preparation, vectorization, model creation, evaluation, and deployment. The goal is to predict news authenticity based on established metrics

## Programming Languages

### Certificates

- Associate Data Scientist (DataCamp)
- Microsoft Office Certified (Microsoft)
- Machine Learning for Business (Datacamp)

### Achievements

- Sumo Robo War 2nd Runner-up, 2023
- Math Olympiad Competition Winner, 2019