SADIK AL JARIF

Address: Mirpur-1, Dhaka, Bangladesh | **Cell**: +88-01686518462 | **Email**: sadikaljarif05@gmail.com
Website: jarif87.github.io | **Github**: github.com/jarif87 | **Kaggle**: kaggle.com/evilspirit05
LinkedIn: Sadik Al Jarif | **Hugging Face**: huggingface.co/jarif

Professional Summary

Motivated Data Science Professional with expertise in Natural Language Processing (NLP) and Computer Vision, leveraging advanced techniques like Large Language Models (LLMs) and Convolutional Neural Networks (CNNs). Experienced in delivering innovative machine learning solutions across healthcare, geospatial analysis, and automation. Passionate about advancing technology to solve complex problems.

Professional Experience

Academic Associate Apr 2024 – Present
AI Expert Career Dhaka, Bangladesh
- Delivered full-time academic support in AI development and career mentorship.

Machine Learning Engineer Apr 2024 – Aug 2024
Alpha Analyst Dhaka, Bangladesh
- Designed and deployed LLM-powered solutions, including **Brain Tumor Advisor, QuasarBot, Semantic Search Map**

Data Science & Business Analytics Intern Mar 2024 – Apr 2024
The Sparks Foundation India
- Conducted data-driven analysis for sports, stock, and retail sectors using **Tableau**, **Power BI**, and **Python**.

Data Science Intern Mar 2024 – Apr 2024
CodeClause India
- Developed machine learning models for **crop disease identification**, **demand forecasting**, and **customer segmentation** using K-Means clustering and **FastAI**.

Education

Bachelor of Science in Computer Science and Engineering Jan 2018 – Sept 2022
Manarat International University | CGPA: 3.54 out of 4 Dhaka, Bangladesh

Key Skills

- **Platforms:** Kaggle, Colab, MS Visual Studio & Office, PyCharm, Code Blocks, DeepNote, Jupyter Notebook, Jupyter Lab, Spyder, DataBricks.
- **Data Science Tools:** Pandas, NumPy, Matplotlib, Scikit-learn, Seaborn, Plotly, Selenium, Beautiful Soup, Tableau, FastAI, Hugging Face, Blurr, PyTorch, ONNX, TensorFlow, Keras, Power BI, OpenCV, RAG (Retrieval-Augmented Generation), LangChain, PySpark.
- **Programming:** Proficient in Python (data manipulation, modeling, and automation) and C.
- **Deep Learning:** Artificial Neural Networks (ANNs), Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Transformer Models, Transfer Learning, Large Language Models (LLMs).
- **MLOps Concepts**: End-to-End ML Projects, Productionizing ML Models, Shell Scripting, MLOps Deployment & Lifecycle, Fully Automated MLOps, Data Pipelines, ML Monitoring in Python, Docker, CI/CD for ML.
- **Additional Tools and Technologies:** Proficient in Streamlit, Gradio, web scraping, Python Flask, FastAPI, HTML, CSS, and JavaScript for building interactive web apps, APIs, and enhancing front-end functionality.

Highlighted Projects

- **Galactic Assistant QuasarBot**: Deployed on Hugging Face Spaces, providing instant, accurate answers using LLM and generative AI via Streamlit.
- **Brain Tumor Classifier:** AI tool for tumor classification and treatment recommendations using CNNs, deployed via Streamlit.
- **ECG Analysis for Heart Health**: Provides heart health insights and diagnoses from ECG images using LLM and generative AI via Streamlit.
- **Geospatial Semantic Search Tool**: Visualizes locations on a map using Streamlit and AI models for semantic search.
- **Crop Disease Identification**: Classifies crop diseases using FastAI, deployed on Hugging Face Spaces with Gradio.
- **Text Summarization**: Fine-tunes summarization models using BLURR and Hugging Face transformers for accurate summaries.
- **Movie & TV Show Genre Classification**: Classifies genres of movies and TV shows using Selenium, BLURR, and Hugging Face.
- **Fruit Recognizer**: Recognizes fruits using FastAI and ResNet-50, deployed on Hugging Face Spaces for agricultural and dietary apps.
- **PokéInsights**: Scrapes Pokémon data with Selenium and visualizes it using Tableau for analysis.
- **Fake News Detection (Bangla & English)**: Detects fake news using LSTM, GRU, BI-LSTM, and DistilBERT with enhanced word vectors.
- **Plant Disease Detection with GoogLeNet**: Classifies plant diseases using GoogLeNet, evaluated with metrics like ROC AUC.
- **Disaster Response Prediction with XLNet**: Classifies disaster-related tweets using XLNet in TensorFlow, achieving 81% accuracy.
- **Spam Detection with ALBERT**: Achieves 99% accuracy in spam detection using ALBERT and TensorFlow.
- **Dog Breed Identification**: Classifies dog breeds using ResNet50V2 with 65% accuracy.
- **Alzheimer's Stage Classifier with EfficientNetB6**: Classifies Alzheimer's stages using EfficientNetB6, evaluated with confusion matrix and classification report.