

Md Abdullah Al Hasib

MACHINE LEARNING ENGINEER

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EXPERIENCE

AI Developer - remote ([Creative AI](#))

NOV 2024 – Present

- Fine Tune Large Language Model the Arabic language, especially whisper fine-tuning with Jordan Arabic accent, working with RAG applications.
- Autonomous the process of ML pipeline, Web automation.
- AudioSense - Analyze the Customer and Agent Audio with AI and Store the information in Postgres Database.
- VoiceBot - RAG Application Chatbot (Speech to Speech) and bilingual(Eng, Arab), and analyze chat history.

Machine Learning Engineer - remote ([KBY-AI](#))

SEP 2023 – MAY 2024

- Design, develop, and optimize computer vision algorithms and models through GPU Servers
- Train, fine-tune, and optimize deep learning models and neural networks for monitoring the cow farms such as incident detection, animal counting, feed lane detection etc
- Integrate computer vision models into larger software systems or applications and deploy them into production environments. Engage in continuous learning and professional development activities.

AI Developer - remote ([Upwork](#))

SEP 2024 – Present

- Legal Application - Collect debt information, Perform AI Validation of the account, Start Legal Event, Select Attorney, Get Judgement, and analyze the whole costs.
- DO Side Project when available

Technical Content Creator ([Medium](#)) ([YouTube](#))

- Content create in AI/ML/DL fields, interview questions to teach others. Explore new technologies to make available for all others.
- Useful for learn new technology and ideas to implement to real projects.

Jr. ML Engineer - remote ([Namespace IT](#))

JAN 2023 – FEB 2024

- Content Writer at [aionlinecourse](#) in Machine Learning, Deep Learning, Computer Vision related articles
- Explore the updated technologies in the field of AI. Making projects in different domains of AI.

PROJECTS

License Plate Detection & Recognition ([Project Demo](#))

- Developed License plate detection through YOLOv8, extract the region of the license plate.
- Read the license plate by easyocr and track the car with it's license plate with bytetracker in a video.

Automatic Speech Recognition ([Project Demo](#))

- Create dataset for STT(speech to text) from Youtube Video, upload to the huggingface hub.
- Finetune the whisper model with the datasets.

Sentiment Analysis ([Project Demo](#))

- Developed an app through streamlit that is able to predict the sentiment of a text through textblob, Vader & transformers. Also comparison the performance of the models.

Forest Cover Type Prediction ([Project Demo](#))

- Developed machine learning multi class classification problem, experimenting with different models as well as perform hyperparameter tuning to get the best parameters.

Voice Bot with RAG ([Project Demo](#)) ([API](#))

- Create a Backend API that takes Voice or text as input, then answers from the Vector Store and LLM, then generates Audio of the Generated Response.

Chatbot Application with RAG (able to add knowledge base through UI)

TECHNICAL SKILLS

Domain Expertise: Machine Learning, Deep Learning, Computer Vision, NLP, Generative AI, MLOPs

Languages: Python, R, HTML, SQL

Libraries: Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn, XGboost, OpenCV, Ultralytics, Pillow, Nltk, Gensim, TextBlob, Huggingface, Streamlit, Altair, Scikit Image, SQLAlchemy, Postgres, VectorDatabase, StanfordNLP

Frameworks: Tensorflow, Keras, Pytorch, Pytorch-lighting, Transformers, YOLO, Langchain, Langgraph, OPENAI API, MLflow, DVC, Amazon Sagemaker, AWS(Cloud), FastAPI, Flask

Developer Tools: Git, Github, GitLab, VS Code, Docker, Linux, GPU Server(CUDA)

Soft Skills: Mentoring, Collaboration, Communication, Quick Learner, Time management

OPEN SOURCE CONTRIBUTION

- **NoCodeTextClassifier:** A Python package for Low Code/No Code Text Classification task [PyPI](#)
- **eng_text_cleaner:** A Python package for Cleaning the text from unnecessary characters [PyPI](#)

EDUCATION

Islamic University, Bangladesh

JAN 2019 – DEC 2024

Bsc in Computer Science & Engineering