

SAZZAD HUSSAIN FARHAAN

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CAREER OBJECTIVE — As an AI Developer with significant experience in Machine Learning, I am seeking opportunities to contribute to cutting-edge research and practical applications in Ethical AI for social good. I am open to working in diverse domains aligned with the research objectives.

RECENT EXPERIENCE

Chief Technical Officer CS Meta Limited, Dhaka, Bangladesh Domain: Strategic Technology Planning, Project Management, Financial Analysis for IT Investments, SWOT Analysis, Stakeholder Alignment, Innovation and Digital Transformation Leadership, Data-Driven Decision Making	08/2024 – Present Full-time - Onsite
Customer Relationship Manager IT Nova LLC, Maryland, USA Domain: Customer Engagement and Retention, Strategy Implementation, Customer Experience Optimization, Data-Driven Client Insights, Client Relationship Development,	12/2024 – Present Part-time - Remote
Project Manager, Talent Acquisition Specialist Genmorphics AI Solutions, Dhaka, Bangladesh Domain: Project Management, Talent Management, Strategic Planning, Financial Analysis, SWOT Analysis	06/2024 – Present Part-time - Remote
AI Developer Web and More Limited, Blackpool, United Kingdom Domain: Image Processing, OCR (Optical Character Recognition) Tasks, Image Denoising, Compression Algorithms.	05/2024 – 10/2024 Part-time - Remote
Machine Learning Engineer Omdena, Toronto, Canada Domain: Natural Language Processing (NLP), Web Scraping, Computer Vision, Medical Image Analysis.	09/2023 – 03/2024 Part-time - Remote
Machine Learning Engineer Creative IT Institute, Dhaka, Bangladesh Domain: Computer Vision, NLP, Relational Agents, Generative AI, Python Programming, Agile.	11/2021 – 02/2024 Full-time - Onsite
Data Scientist Fellowship.AI, California, United States Domain: Large Action Models, AI, NLP, Transformer Architectures, ETL Pipelines.	10/2023 – 12/2023 Fellowship - Remote
Undergraduate Teaching Assistant University of Liberal Arts Bangladesh Domain: Computer Science, Calculus, Programming Languages, Student Advising, Mentoring.	11/2017 – 04/2019 Part-time - Onsite

EDUCATION

Bachelor of Science in Computer Science and Engineering University of Liberal Arts Bangladesh (ULAB) (Thesis + Project): Natural Language Processing based Quality LMS for Students Evaluation and Engagement Metrics Calculation	2016 - 2020 CGPA: 3.33 on a scale of 4.00
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PROJECTS

EquiJob - AI-Driven Bias Detection in Job Descriptions Technologies: Word2Vec, GloVe, BERT, GPT, EDA, Selenium, Beautiful Soup Developed a tool to detect and analyze gender bias in job descriptions using NLP techniques. Conducted feature engineering, model training, and validation.	Link to Case Study
Early Detection and Diagnosis of Alzheimer's Disease Technologies: Nibabel, OpenCV, Scikit-Image, Keras, TensorFlow, PyTorch, CNN Transfer Learning, DeepChecks, Docker, FastAPI Collaboratively developed a CNN for early detection of Alzheimer's disease using a dataset of 6,400 MRI images. Model achieved 99.22% accuracy. Deployed as a REST API using Docker and Streamlit, hosted on Hugging Face Spaces.	Open in Hugging Face
Travel Agent Large Action Model (LAM) Technologies: Amadeus API, OpenAI API, 8-bit Quantization, Few Shot Learning, Mistral LLM, Ollama LLM, LangChain, spaCy Collaborated on a travel assistant application using Amadeus API and OpenAI API. Implemented a chatbot interface with Streamlit, and contributed to a Large-Action Model (LAM) pipeline. Enhanced skills in AI and NLP, and optimization techniques.	Open in GitHub [Private Repository]

RESEARCH PUBLICATION

1. **Farhaan, S.H.**, Hasan, M.M., Ghani, F.M., Mansoor, N. (2024). Enhancing Student Engagement and Performance Evaluation: An Integrated Approach for Quality Learning Management System. In: Proceedings of World Conference on Information Systems for Business Management. ISBM 2023. Lecture Notes in Networks and Systems, vol 833. Springer, Singapore.

2. Prodhan, M.S., Diip, N.S., Akter, S., **Farhaan, S.H.**, Mansoor, N. (2024). Advancing Fish Species Identification in Bangladesh: Deep Learning Approaches for Accurate Freshwater Fish Recognition. In: Proceedings of World Conference on Information Systems for Business Management. ISBM 2023. Lecture Notes in Networks and Systems, vol 834. Springer, Singapore.

TECHNICAL COMPETENCIES

Programming Languages: Python, C++ , Java, JavaScript, TypeScript	Libraries and Frameworks: TensorFlow, Keras, PyTorch, DLTK, OpenCV, Scikit-learn, Scikit-image, NumPy, SciPy, Tesseract OCR, Seaborn, Streamlit, LangChain, SpaCy, FastAI, React Native CLI, Hugging Face Transformers, librosa, torchaudio, Fairseq, OpenAI CLIP
Machine Learning & Deep Learning: Supervised learning, Unsupervised learning, CNNs, RNNs, LSTM, Transformer Architectures, Model training, Model evaluation, Parameter tuning, Multimodal learning, Attention mechanisms, Transfer learning	Computer Vision: Edge detection, Histogram equalization, Morphological operations, Filtering techniques, Image denoising, Object detection, Image segmentation, Optical character recognition (OCR)
Tools & Platforms: Git, GitHub, DVC, DagsHub, Jupyter Notebooks, Docker, AWS Sagemaker, Roboflow, Data Annotation, LATEX	Web Scrapping: Selenium, BeautifulSoup

SOFT SKILLS

Public Speaking, Team Work, Steadiness, Emotional Intelligence, Human Management, Mentoring

ACHIEVEMENTS

The Gold Standard Awardee, The Duke of Edinburgh’s International Award: Awarded by the **British High Commissioner** for achieving the Gold Standard in skill, physical recreation, social welfare, and adventurous activities.

Vice Chancellor’s Honors List Scholarship, Summer 2016

Awarded Merit based Scholarship worth 3,500 USD from the University of Liberal Arts Bangladesh

The Silver Standard Awardee, The Duke of Edinburgh’s International Award: Silver Standard achieved in skill, physical recreation, social welfare, and adventurous activities.

The Bronze Standard Awardee, The Duke of Edinburgh’s International Award: Achieved Bronze Standard in skill, physical recreation, social welfare, and adventurous activities.

Top 40, NASA Space Apps Challenge 2018, Regional Round: Project - Sustainable Multi-Source Energy Harvesting System: Solar Tracking and Raindrop Kinetic Conversion in a Hybrid Photovoltaic Array.

Champion, ULAB Techfest 2019, Idea Contest: Project - AI Integrated Wellness Tracker: A comprehensive mobile application for personalized nutritional monitoring, calorie balance, and exercise optimization.

1st Runner-Up, ULAB Techfest 2019, Poster Display: Project - Acoustic Energy Harvesting in Urban Environments: Converting Noise Pollution into Sustainable Electric Power.

Lead Volunteer, IJCCI 2019: Led a team of more than 50 volunteers to successfully organize the International Joint Conference on Computational Intelligence 2019.

CO-CURRICULAR EXPERIENCE

Chairperson, IEEE CS ULAB Student Branch Chapter 04/2019 – 08/2020 Founding Chairperson of the Student Branch Chapter. Led the executive team for 25 collaborative and internal events.	Secretary, IEEE ULAB Student Branch Chapter 07/2017 – 04/2018 Delegated activities from the Regional Section to the Student Branch. Increased membership from 10 to 70+ members.
Chairperson, IEEE ULAB Student Branch 03/2018 – 04/2019 Prepared the Branch Annual Plan. Organized and coordinated more than 20 flagship and international events for the student branch. Increased membership drive to 250%.	Lead Publication, Team Spark, IEEE CS Bangladesh Chapter 07/2019 – 08/2020 Facilitated collaboration among 23 IEEE-affiliated universities in Bangladesh, fostering research groups for professional and student members to bridge the industry-academia gap.