MD. ZAED HASSAN

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SUMMARY

Computer Science graduate with a strong foundation in software engineering, specializing in Python, machine learning and AI-driven solutions. Experienced in developing scalable applications, conducting advanced data analysis and publishing IEEE-accredited research. Skilled in building predictive models, automating processes with AI and leveraging technology to solve complex real-world problems in data science, automation and artificial intelligence.

SKILLS OVERVIEW

- Programming: C#, Python, Java, C, C++,
- Machine Learning: PyTorch, TensorFlow, NumPy, Pandas, Logistic Regression, Gradient Descent, Linear Regression, Decision Tree, Naive Bayes, LSTM, CNN, RNN.
- Software Development: ASP.NET, .NET Core, .NET, RESTful APIs, PHP, MERN stack.
- Data Engineering: MySQL, Firebase.
- Tools: Git, VS Code, Cisco Packet Tracer, Arduino, Postman, IIS.

EDUCATION

Bachelor of Science in Computer Science and Engineering — May 2019 - Jul 2024

BRAC University

- CGPA: 3.42 (Out of 4.00) | Minor: Business Studies

WORK EXPERIENCE

Data Operator(Part time) | BRAC University Admissions Office — Jan 2023 - Jan 2024

- Streamlined data validation processes, reducing errors by 20%.
- Managed database systems, including data entry and ID validation.
- Coordinated office documentation to enhance operational efficiency.

Trainee Software Developer| Data-Edge Ltd. — Feb,2025 - Present

- Delivered new projects & features increasing company exposure by 10%.
- Used .net, C#, ASP.NET, ADO.NET, Html, CSS, .NET Core for development & maintenance of existing projects

PROJECTS AND RELATED WORKS

Anime Recommendation System: Built a recommender system using Google Colab to suggest anime based on genre, theme and demography, demonstrating proficiency in machine learning tools. Used classification techniques, clustering and classifiers like; SVM, KNN, decision tree etc.

Sentiment Analysis on IMDB Movie Reviews: Conducted sentiment analysis on real-world IMDB data, achieving accurate predictions for positive and negative reviews using Python. Applied machine learning techniques with libraries like TensorFlow, NumPy, and Pandas for data preprocessing and model building.

MemeLand Map: Developed a meme finder based on meme description. This AI-powered meme finder is used to match your weird descriptions with even weirder memes. Used HuggingFace transformers, OpenAI Clip and PyTorch.

Website Form Automation with UI Path: Automated the submission process for a website form using UI Path, reducing manual input time by 80%. Designed a robot process to handle form validation, error detection and accurate data entry.

Excel Data Extraction with Robot Process Automation (UI Path): Implemented a UI Path workflow to automate data extraction from Excel sheets, achieving 100% accuracy and saving 4 hours per task. Integrated the robot process to generate formatted reports, streamlining repetitive tasks.

PUBLICATIONS AND RESEARCH INTEREST

- Md. Zaed Hassan, "Health Trauma and Well-being Assistant for Bengali Seniors in Household: A Multimodal Approach," IEEE-accredited 4th ICISET Conference, November 2024.
- Best Paper Award: “Integrating Computer Vision and Conversational AI for Elderly Wellness : A Multimodal Bengali Care Framework”- 8th best paper on IEEE CS BDC Summer Symposium 2025, July 2025.

Research Interests:

- Artificial Intelligence, Machine Learning, Human Computer Interaction, Computer Vision.

CERTIFICATIONS [Link to certificates]

- Machine Learning with Tree-Based Models in Python: Learned how tree-based ML models function in Python through a DataCamp program. — Mar-2024
- Feature Engineering for Machine Learning in Python: Completed a DataCamp course to deepen understanding of feature engineering concepts. — Mar-2024
- Volunteer at 10th Intl’ Dhaka Literature Festival.
- Volunteer at 15th Convocation of BRAC University.
- Ex. Director of Marketing | BRAC University Community Service Club.