

Mahir Afser Pavel

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Bangladesh| (WhatsApp)+880 1873742510, +880 1916779508|
September 26, 2001| [LinkedIn](#) [GitHub](#) [Portfolio](#)

About

- Honest, reliable, and highly motivated recent graduate, always eager to expand knowledge and skills.
- Committed to continuous learning and making meaningful contributions in dynamic and fast-paced environments.
- Strong interest in roles such as Lecturer, Data Scientist, Machine Learning Engineer, Natural Language Processing Engineer, and Research Assistant/Associate.
- Passionate about applying technical expertise to deliver impactful results in research, development, and teaching.

Work Experience

Research Assistant

North South University, Dhaka, Bangladesh
April 2024 - June 2024

- Played a key role in the publication of the research paper "*Real-Time Fire Detection: Integrating Lightweight Deep Learning Models on Drones with Edge Computing*" published in *Drones*, 2024.
- Implemented and optimized object detection algorithms, improving model accuracy by 10-20%, contributing to the research outcomes published in peer-reviewed journals.

Education

Bachelor of Science in Computer Science and Engineering

North South University
January 2019 - January 2024
CGPA: 3.71 out of 4.00 (90.06% mark) with Magna cum laude honors
Major in Artificial Intelligence Trail
Relevant Coursework: Artificial Intelligence, Machine Learning, Pattern Recognition, Neural Networks, Natural Language Processing, Computer Vision, Image Processing, Robotics

Higher Secondary Certificate (HSC)

Banani Bidyaniketan School & College
2018
Achieved with Moderate Excellence, securing a GPA of 4.00 out of 5.00

Secondary School Certificate (SSC)

Banani Bidyaniketan School & College
2016
Achieved with Academic Excellence, securing a perfect GPA of 5.00 out of 5.00

Notable Projects

- NSCLC Classification Using DL, CV, NLP** - Researched and implemented a lung cancer classification model using deep learning, computer vision, and natural language processing techniques, achieving an accuracy of over 90%. ([GitHub Link](#))

- Research** - Developed a cluster-based search engine to allow users to establish clusters of links and define the data they want the program to scrape. The scraped data is saved in an Elasticsearch index, allowing users to conduct effective searches. ([GitHub Link](#))
- Tooth Decay Identification Using YOLO Algorithm** - Developed an algorithm based on YOLO for identifying tooth decay in dental X-ray images, achieving over 90% accuracy.
- More projects available on LinkedIn** - Visit my LinkedIn profile for more projects: [LinkedIn](#)

Certifications

- Communication Masterclass by Tahsan Khan** (May 2023) - [View Certificate](#)
Enhanced communication skills, including public speaking, negotiation, and effective interpersonal communication.
- Audited DeepLearning.AI Courses**
Developed comprehensive knowledge and hands-on experience in Machine Learning, Deep Learning, Natural Language Processing, Generative Adversarial Networks (GANs), and Advanced TensorFlow Techniques Specialization.

Publications

- Md Fahim Shahoriar Titu, Mahir Afser Pavel, Goh Kah Ong Michael, Hisham Babar, Umama Aman, and Riasat Khan. (2024). "Real-Time Fire Detection: Integrating Lightweight Deep Learning Models on Drones with Edge Computing." *Drones*, 8(9), 483.

Languages

- English - Fluent
- Bengali - Native

Professional Skills

Technical Skills

- Programming Languages:** Python, Java, C++, C, PHP, Prolog, Scheme
- Web Development:** HTML, CSS, JavaScript, Django
- Database Management:** SQL
- Version Control Systems:** Git
- Data Analysis and Machine Learning Libraries:** Scikit-learn, TensorFlow, PyTorch, Keras, Pandas, NumPy, Matplotlib, Seaborn, NLTK, SpaCy, OpenCV, Gensim

Software Tools

- Integrated Development Environments (IDEs):** PyCharm, Visual Studio Code, Code::Blocks, Eclipse, Google Colaboratory, Jupyter Notebook, Kaggle
- Project Management Tools:** Jira, Trello
- Collaboration Platforms:** Slack, Microsoft Teams
- Document Typesetting:** Word, Excel, PowerPoint, LaTeX

References

Available upon request.