Mst. Nazneen Aktar, Full-stack Developer

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CAREER PROFILE

Motivated and detail-oriented Full-stack Developer with over a year of hands-on experience in developing web applications and a strong foundation in programming, machine learning, and data-driven solutions. Originally trained in Disaster Management (B.Sc.), I pivoted my career to web development, driven by a passion for technology and problem-solving. Currently pursuing perustutkinto in front-end and back-end technologies at Salon Seudun Ammattiopisto, Finland. Concurrently, I am actively contributing to innovative projects and research work that showcase my proficiency in scalable application development and machine learning techniques. Fluent in multiple languages, I am well-equipped to collaborate in diverse, multicultural environments. My dream is to pursue a master's degree in my passion areas, which include computer science, data science, machine learning, or environmental science (the field of my academic foundation).

Languages: English (Native level), Finnish (Advance, B2), Bengali (Native), Hindi (Fluent).

- **Programming:** JavaScript, Python, C#, React, Node.js, PHP.
- **Frameworks & Libraries:** React.js, Node.js, Express.js, EJS, Flask.
- **Databases:** SQL, MySQL, MongoDB.
- **Front-end Development:** HTML, CSS, JSON, jQuery, Express.js, Bootstrap, Tailwind, Bootstrap, JavaScript, Next.js, EJS, React.js.
- **Back-end Development:** Python, Flask, PHP**,** Node.js, Express.js, EJS, React.js, API Development, RESTful API.
- **Machine Learning Skills:** NumPy, Pandas, SciPy, Scikit-Learn, Neural Net, TensorFlow, Pytorch, NLP.
- **Game Development:** C#, Unity.
- **Version Control:** Git, GitHub.
- **Cloud Technologies:** AWS (EC2, S3, RDS, Lambda)
- **Visualization:** Matplotlib, Seaborn, Plotly, ggplot, Microsoft Power BI.
- **Development Tools:** Visual Studio Code, CodeSandbox, Bracket, Jupyter Notebook, Thonny.
- **Software Development Methodologies:** Agile (theoretical knowledge), Scrum (academic understanding), Lean (coursework).

EDUCATION

- B.Sc. in Disaster management at Begum Rokeya university, Rangpur, Bangladesh (**2012 – 2017**).
- Perustutkinto, Tieto ja viestinta technikka, Salon Seuden Ammattiopiso, Salo, Finland (**2023 – 2025**).
- VALMA tutkinto, Tampereen Aikuiskoulutuskeskus (TAKK), Tampere, finland (**2020**).

PUBLICATION

1. Mamun, M. A., Islam, A. R. M. T., Aktar, M. N., Uddin, M. N., Islam, M. S., Pal, S. C., Islam, A., Bari, A. B. M. M., Idris, M. A., & Senapathi, V. (2024). *Predicting groundwater phosphate levels in coastal multi-aquifers: A geostatistical and data-driven approach.* **Science of The Total Environment**, 953, 176024. https://doi.org/10.1016/j.scitotenv.2024.176024.

2. Islam, A. R. M. T., Mamun, M. A.-A., Hasan, M., Aktar, M. N., Uddin, M. N., Siddique, M. A. B., Chowdhury, M. H., Islam, M. S., Bari, A. B. M. M., Idris, A. M., & Senapathi, V. (2025). Optimizing coastal groundwater quality predictions: A novel data mining framework with cross-validation, bootstrapping, and entropy analysis. *Journal of Contaminant Hydrology, 269,* 104480. https://doi.org/10.1016/j.jconhyd.2024.104480.

KEY PROJECTS

Web Applications ***January 2022 – Present***

Application: Threads Clone

Successfully developed and deployed a comprehensive Threads-like application leveraging the MERN (MongoDB, Express.js, React.js, Node.js) stack, integrated with Socket.io for real-time chat functionality. The project emphasizes user-centric design, robust authentication, and seamless social interactions, showcasing the ability to create full-stack, scalable applications.

Key features include a secure JWT-based authentication system, an interactive platform for creating, liking, and commenting on posts, and dynamic social connectivity with follow/unfollow functionality. The application also incorporates real-time chat capabilities, complete with image sharing and seen/unseen indicators, enhancing user communication. Personalization options such as dark/light mode toggles and account freezing further improve the user experience.

Machine Learning ***January 2024 – Present***

- Explored NLP techniques using Python and libraries such as NLTK, spaCy, and Scikit-learn. Conducted tasks including text preprocessing, tokenization, and sentiment analysis. Trained and evaluated machine learning models for text classification, achieving an impressive 92% accuracy on the test dataset.

- Developed and successfully completed 10+ highly demanding machine learning projects, showcasing expertise in classification and regression problems. Classification projects include Health Dataset - Diabetes, Predicting Future Transactions - Banking Dataset, Multiple Sclerosis Disease and so on. Regression projects include Credit Risk Classification, Wine Quality, Sleep Efficiency Dataset, Waiter's Tips, Flight Delay and so on.

WORK EXPERIENCE

GenAI Harjoittelu
Duration: 3 months (January - March 2025)
Vaiste Productions Oy,
Turku, Finland.

Kieli Harjoittelu Päiväkodissa,
Duration: 3 weeks (2018),
Timotei Päiväkoti,
Malminkartano,Helsinki, Finland.

Kieli Harjoittelu Päiväkodissa,
Duration: 6 weeks (2020),
Multisilta Päiväkoti,
Multisilta,Tampere, Finland.