

MD FAHIMUL KABIR CHOWDHURY

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Experience

Graduate Research Assistant, University of North Texas

11/2024 - Current

- Conducted research on medical imaging, improving relative accuracy on an open-source dataset by 17%.
- Collaborated with PhD students to design and test benchmark transformer architectures and custom CNNs.
- Mentored 150+ undergraduate students, assisting with Data Mining coursework and assignments.

Ed-Tech Content Creator, [YouTube](#)

07/2020 - Current

- Built an Ed-Tech YouTube channel focusing on Web Development, Software Engineering, and Programming, growing to 150K+ subscribers and 10M+ views.
- Simplified complex programming and tech topics for a global audience, enhancing learning outcomes for aspiring developers.

Wordpress Developer(Intern), [TigerIT](#), Dhaka, Bangladesh

06/2022 - 09/2022

- Designed and optimized 35+ WordPress websites, improving scalability and conversion rates by 20%.
- Collaborated in an Agile Project Management environment to create visually appealing landing pages, enhancing user experience.
- Enhanced creative growth strategies, contributing to increased product visibility and generating 200K+ BDT in revenue.

Web Developer, [Market Quotient](#), Kolkata, India

10/2021 - 05/2022

- Developed semantic HTML structures, improving accessibility and SEO rankings.
- Introduced dynamic interactivity using JavaScript and CSS animations, increasing user engagement by 30%.
- Optimized performance, reducing page load times by 40% through testing, minimizing file sizes, and implementing image optimization.

Projects

Credit Card Fraud Detection - [Documentation](#)

- Developed a distributed machine learning pipeline using PySpark for real-time fraud detection.
- Achieved 99.99% accuracy and a 0.999 AUC-ROC score using anonymized transaction data.

eCommerce Data Analysis and Demand Forecasting - [Documentation](#)

- Designed an E2E solution using AWS S3, EMR, Hadoop, PySpark, and Hive for data ingestion, preprocessing, and predictive modeling.
- Built interactive Tableau dashboards for tracking KPIs and improving inventory decision-making.

JSTACK: Developed a job portal with functionalities like search filters, authentication, and dynamic job postings. [Project](#) (09/2024)

OrbitHub: Developed an open-source platform for NASA Space App Challenge 2023, enabling collaborative research. [Project](#) (10/2023)

CARA: Created a multi-page, responsive eCommerce website with custom coding for improved user experience. [YouTube](#) (08/2022)

Skills

- **Programming Languages:** Python, Java, JavaScript, SQL, C
- **Frameworks/Tools:** React, Django, Node.js, Flask
- **Data Tools:** Pandas, NumPy, PySpark, Hadoop, Kafka
- **Cloud Platforms:** AWS, Google Cloud Platform (GCP)
- **DevOps:** Docker, Kubernetes, CI/CD Pipelines
- **Databases:** MySQL, PostgreSQL, MongoDB

Education

Master's in Data Engineering, University of North Texas, Texas, USA

08/2024 - Present

Specialization: **Data Analysis, Image Vision, Machine Learning, Deep Learning, Transfer Learning**

Mentorship

- **Udemy:** Guided and advised students on coding bootcamps, career building, and hands-on programming projects. (06/2023 - Current)
- Helped over **150K** students globally through personalized mentorship and content creation.
- **Computer Science Tutor:** Web Development & Design | Programming | Python and Algorithms | Project Building
- **Technical Writer/Author** at Technewsidea.com, Dev.to, Hashnode.io and various other community platforms.

Others

- Selected for "Top 50" Teams in **NASA Space App Challenge 2023** for in-person hackathon (10/2023)
- **YouTube 100K Subscribers Award:** Got my YouTube Silver Play Button Award for achieving 100K subscribers (06/2023)
- **Certificate of English Language Proficiency:** Successfully achieved 7.5 IELTS Band Score (08/2023)