

# MD FAHIMUL KABIR CHOWDHURY

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## Experience

### Graduate Research Assistant, University of North Texas

11/2024 - Current

- Conducted research on transactional behaviour analysis, 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, Deep learning 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.

### Data Science Engineering(Intern), [TigerIT](#), Dhaka, Bangladesh

06/2022 - 09/2022

- Designed and optimized a scalable ETL data pipeline using Apache Spark and AWS S3 to ingest and process 200 GB of raw data daily.
- Improved data availability for analytics teams by 40% and reduced data processing time from 12 hours to 4 hours.
- Aggregated and cleaned sales data for predictive analytics, improving demand forecasting accuracy by 30% and reducing inventory costs by \$20,000 annually.

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

10/2021 - 05/2022

- Collaborated in an Agile Project Management environment, improving NEXT.JS structure 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

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| • <b>Programming Languages:</b> Python, Java, JavaScript, SQL, C | • <b>Cloud Platforms:</b> AWS, Google Cloud Platform (GCP) |
| • <b>Frameworks/Tools:</b> React, Django, Node.js, Flask         | • <b>DevOps:</b> Docker, Kubernetes, CI/CD Pipelines       |
| • <b>Data Tools:</b> Pandas, NumPy, PySpark, Hadoop, Kafka       | • <b>Databases:</b> 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)