# Mohammed Yadin Hossain

## Data Scientist & Systems Analyst

📞 (347) 337-1356  @ yadinhossain01@gmail.com  🔗 My Portfolio

⚙ mHossain31  in yadin-hossain  kaggle yadinhossain

## Summary

Results-driven Data Scientist with 5+ years of systems analysis experience specializing in machine learning (ML), predictive analytics, and business intelligence (BI). Proven track record leveraging Python, SQL, and statistical modeling to optimize operations, reduce costs by 25%, and improve system efficiency by 40%. Expert in ETL pipelines, data visualization, and cross-functional collaboration delivering ROI-driven solutions.

## Experience

### Bismillah Drugs INC
Systems Analyst
**Jan 2019 - Present**

- Optimized pharmacy operations using data-driven IT solutions, reducing system downtime by 45% and improving workflow reliability by 35%

- Diagnosed and resolved 200+ network/server issues monthly, maintaining 99.5% uptime and ensuring HIPAA compliance

- Developed Python-based monitoring systems reducing manual intervention by 50% and preventing data loss incidents

🔗 bismillahdrugs.com

### Dept. Engineering & Computing Sciences, NYIT
Teaching Assistant
**Jan 2024 - Dec 2024**

- Led Python programming lab sessions for 150+ students, achieving 95% satisfaction rate and 15% grade improvement

- Supported the development and delivery of coursework in Big Data, Algorithms, Biometrics, and Deep Learning.

- Collaborated with faculty to enhance curriculum design and improve academic support for students.

🔗 NYIT

## Education

### New York Institute of Technology
Data Science
4.0 GPA
M.S.
**Sep 2022 - Dec 2024**

### New York Institute of Technology
Computer Science
3.9 GPA
B.S.
**Sep 2019 - Dec 2023**

## Projects

### Air Pollution Detection & Reduction Strategies
Lead Data Scientist
**Jan 2024 - Dec 2024**

Developed SUMO-based traffic simulation integrated with ML models (Random Forest, XGBoost, SVM) for real-time air pollution detection. Engineered 50+ features from mobility/environmental data achieving 92% prediction accuracy and 75% emission reduction through optimized traffic flow algorithms.

🔗 Kaggle Notebook

## Skills

### Machine Learning & AI

Deep Learning Models, Neural Networks, Reinforcement Learning, Ensemble Methods, Natural Language Processing (NLP), TensorFlow, Scikit-learn, XGBoost

### Programming & Analytics

Python 3.x, R, SQL, JavaScript, TypeScript, Statistical Modeling, A/B Testing, Hypothesis Testing, Game Theory, Bayesian Statistics, Data Mining

### Data Visualization & BI

Tableau, Power BI, Matplotlib, Seaborn, Pandas, NumPy, Dashboard Development, KPI Analysis, Business Intelligence, Reporting

### Database & Big Data

SQL Server, MongoDB, PostgreSQL, AWS RDS, Apache Hadoop, ETL/ELT Pipelines, Data Warehousing, Prisma ORM, Data Pipeline Development