TRUPTI FNU

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OBJECTIVE

"Master's in Information Systems student with hands-on experience in data analysis, machine learning, and data visualization using Python, SQL, and Power BI. Passionate about turning data into insights to support data-driven decision-making."

EDUCATION

University of Maryland, Baltimore County Graduating May 2025

Master's in Information Systems, Catonsville, MD GPA: 3.9/4.0

Godutai Engineering College for Womens 2017-2021

Bachelor's in Electronics and communication, Kalaburagi, Karnataka CGPA: 8.9/10

EXPERIENCE

NEOPATHOLOGY CORP. | *Research And Development Intern* June - August 2024

- Conducted literature reviews & developed Python-based feature extraction algorithms using skimage.measure.regionprops, analyzing 2,558 tissue structures for shape quantification and improving object detection accuracy.
- Collaborated with cross-functional teams to integrate and refine shape analysis tools, increasing measurement completeness by 26% and ensuring full data coverage for accurate statistical analysis.

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY | *Research Assistant* Started 2024

- Developing a machine learning system using survival analysis to enhance fairness in healthcare resource allocation by engineering metrics that quantify disparities and optimize model performance.

GOVERNMENT TOOL ROOM AND TRAINING CENTER | *Data Analyst* June 2021 - May 2023

- Developed a data logging system with SQL and Python to analyze production metrics, increasing throughput by 12%, and performed time-series analysis to improve maintenance strategies.
- Built Power BI dashboards for real-time KPI insights, supporting data-driven decisions in manufacturing operations.

GOVERNMENT TOOL ROOM AND TRAINING CENTER | *Control system Engineer Intern* March 2021- May 2021

- Developed and implemented PLC ladder logic and configured SCADA systems for real-time monitoring of 10+ machines, improving efficiency by 15% and reducing downtime by 10%.
- Integrated IIoT solutions using MQTT and Raspberry Pi, enabling remote monitoring and predictive maintenance through connected control systems.

SKILLS

Languages	Python, SQL, R, Java, C/C++, HTML, CSS, JavaScript
Data Analysis	Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, WEKA
Visualization	Tableau, Power BI, Matplotlib, Seaborn, Excel
Databases	MySQL, PL/SQL, SQLite, MongoDB
Cloud & Tools	GitHub, Docker, AWS (basic), Visual Studio, Adobe XD, Lens Studio, SCADA, MQTT, Raspberry Pi

PROJECT

AI-Generated Tweet Detection | *2025*

- Built an AI-generated tweet detector with 90.85% accuracy using BERT and LSTM, optimizing performance through tuning, class balancing, and ensemble learning.

Named Entity Recognition (NER) | *2024*

- Built a NER system using SVM and CRF with pandas, scikit-learn, and spaCy, achieving reliable biomedical text extraction through precision, recall, F1 score, and accuracy evaluation.

Database Management System | *2023*

- Developed a restaurant management system in PL/SQL, with inventory and menu management, and built reporting tools to enhance data integrity and performance insights.

Fake News Classification | *2023*

- Built a fake news classifier using SMO and Decision Trees in WEKA, with thorough model evaluation for adaptability to evolving news patterns.