

Kate Scarboro

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SUMMARY

Computer science graduate student interested in using data and software to improve how people understand and act on public information. Experience working with public inspection records to design dashboards and predictive models that support decision-making for non-technical users.

DATA & DECISION-SUPPORT PROJECTS

Food Establishment Risk Dashboard (Public Health Data) — Power BI, DAX

Built a decision-focused dashboard using Mecklenburg County restaurant inspection data to help identify locations that may require earlier attention.

- Separated current inspection performance from predicted decline
- Created DAX risk score combining recent scores and trends
- Added geographic mapping to reveal clusters of higher-risk establishments
- Improved labeling and color usage based on usability feedback
- Prioritized key information for fast interpretation

Predicting Inspection Outcomes with Machine Learning — Python (In Progress)

Developing a model using public inspection records to estimate compliance risk.

- Preparing inspection and violation history data
- Engineering features from inspection patterns
- Evaluating classification approaches for higher-risk detection
- Comparing results to published methods

TECHNICAL SKILLS

Python, pandas, scikit-learn, SQL, Power BI, DAX, data visualization, Git

EXPERIENCE

Batch Cook — CMS Cafeteria, Charlotte, NC Aug 2024 – Jun 2025

- Coordinated timing across multiple tasks during service
- Learned how unclear instructions create operational mistakes

Online Math Tutor — Thinking Feet (Remote) Sep 2023 – Jul 2024

- Adapted explanations based on student confusion
 - Broke technical concepts into step-by-step instructions
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EDUCATION

University of North Carolina at Charlotte

M.S. Computer Science — In Progress (2025–Present)

B.S. Computer Science — 2024