# Kibron Tesfatsion

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## EDUCATION

**University of Maryland, College Park** — College Park, MD
*Major: Bachelor of Information Science* — *Expected Graduation Date: May, 2025*
*Master of Information Management* — *Expected Graduation Date: May, 2026*

## TECHNICAL SKILLS

**Languages/Packages:** Python, HTML, CSS, SQL, Pandas, Numpy, Scikit-learn, Scipy

**Data Visualization:** Tableau, Figma, Plotly, Semaborn, Matplotlib

**Developer Tools:** Amazon Web Services (AWS), Jupyter Notebooks, Adobe Creative Cloud

## PROFESSIONAL EXPERIENCE

**College of Information** — College Park, MD
**Research Assistant** — *October 2023 – Present*
- Developed a Python script to merge transcript segments by speaker, reducing manual review time by 20% and producing clear, formatted documents for analysis
- Utilized SQL and Python to analyze data from dozens of College Park residents and create insightful visualizations
- Planned and taught weekly classes on emerging technology to 13 elders, documenting their interactions and providing detailed notes to support emerging research
- Conducted and transcribed interviews of participants with mild cognitive impairment, totaling more than 130,000 words across 290 pages

**College of Information** — College Park, MD
**Front-End Developer** — *October 2023 – May 2024*
- Maintain and update University of Maryland research websites through HTML, CSS, and JavaScript catering to 100s of visitors a month
- Utilize Figma to create intuitive and senior-friendly designs and interfaces
- Collaborate with professors and Ph.D. candidates to integrate multiple websites and enhance user experience

**Department of Information Technology** — College Park, MD
**Website Quality Assurance** — *July 2023 - August 2023*
- Utilized HTML and CSS to fix bugs on University websites, accessed by thousands of students each week
- Collaborated with developers by documenting and sharing improvement notes for ELMS-Canvas and University websites, enhancing communication and functionality
- Evaluated and analyzed 300+ web pages for their alignment with University relevance and accuracy
- Utilized Impact by Instructure to analyze patterns and trends from millions of user inputs

**University of Maryland, College Park** — College Park, MD
**Teaching Assistant** — August 2023 - Present
- Taught over 300 students about information technologies, the evolution of the information society, and methods for assessing information needs.
- Developed quiz and exam questions for over 300 students to assess their understanding of course material
- Produced, recorded, and edited instructional videos for a 300-level course, benefiting over 60 students.
- Enhanced student engagement by leading study sessions and assignment support during office hours

## PROJECTS

**Social Media Engagement Analysis and Hypothesis Testing**
- Conducted exploratory analysis of social media engagement data, calculating key metrics (comments, average reactions, shares, etc.) to identify trends and patterns.
- Performed hypothesis tests and Z-tests, comparing action vs. non-action movie metascores and validating changing public opinions on climate change, demonstrating advanced data analysis skills
- Created visualizations (histograms, scatter plots, etc.) to analyze correlations between reactions, shares, and comments, and uncovered insights into engagement with various post types

**IMDb Data Analysis and Predictive Modeling**
- Analyzed the IMDB dataset to explore relationships between movie ratings, metascores, and gross earnings, using scatterplots to visualize data and calculate the Pearson correlation coefficient.
- Built regression models to identify key patterns and applied the interquartile range (IQR) method to detect and remove outliers, improving data accuracy.
- Demonstrated proficiency in data visualization, correlation analysis, and regression modeling to derive actionable insights for the entertainment industry