Sania Kawale

College Park, MD | +1 (240)-927-9750 | sania@terpmail.umd.edu | www.linkedin.com/in/saniakawale

Education

University of Maryland, College Park — College Park, MD
B.S. Computer Science, Minor in Computational Finance — *August 2022 – May 2026*

- GPA: 3.73/4.0 (Dean's List Honors)
- Courses: Computer Systems, Advanced Data Structures and Algorithms, Discrete Mathematics, OOP, Statistics, Data Science, Organization of Programming Languages, Machine Learning, Web Application, Mobile Development, Computer and Network Security

Work Experience

AI Software Engineering Intern | LangGraph, OpenAI, CrewAI, Google ADK — June 2025 – August 2025
WeekendAI — *Hong Kong*

- Built an autonomous research assistant using LangGraph, Python, OpenAI LLMs, and vector databases, creating multi-agent workflows (Researcher, Outliner, Writer, Reviewer) to draft and refine structured papers.
- Integrated Google Agent Developer Kit (ADK) and CrewAI to access external data, generate structured drafts, and refine outputs via multi-agent feedback with human-in-the-loop review.
- Designed a financial decision-support agent with Relevance AI, MindStudio, and n8n to automate portfolio analysis, risk/return evaluation, and generate natural-language investment briefs.

AI/ML Intern | Python, PyTorch, PyTesseract, Azure AI, Regex, NLP, OCR — June 2024 – August 2024
CloudMoyo — *Pune, India*

- Deployed an automated contract extraction system using PyTorch, PyTesseract (OCR), Google Cloud Vision (image processing), PyMuPDF (PDF parsing), and Azure AI Document Intelligence to process 500+ contracts with a 60% boost in efficiency.
- Integrated regex and SpaCy algorithms to analyze 2,500+ documents, enhancing risk assessment and key-term identification while collaborating with cross-functional teams and refining OCR/NLP expertise.

ML Research Assistant | MATLAB, NumPy, Pandas, R, Sklearn, TensorFlow — October 2023 – January 2024
Dr. Surja Sharma Lab — *College Park, MD*

- Modeled extreme events on 200k+ records using MATLAB, Python (Pandas, NumPy) and R, boosting quantification accuracy by 30%.
- Developed an ML/AI framework with TensorFlow and scikit-learn that integrated spatial (25+ regions) and temporal (hourly–decadal) data for 3 multidisciplinary natural hazards and climate change projects, with visualizations via Tableau.

Teaching Assistant | OCaml, Rust, Git, Bash, Leadership — August 2024 – Present
Department of Computer Science, UMD — *College Park, MD*

- Working under Prof. Bakalian and Prof. Mamat on the 'Organization of Programming Languages' course, hosting weekly office hours for 400 students through creating/grading assignments and projects.

Computer Science Tutor | Java, C, Assembly, Linux, Shell, JUnit, DSA — January 2024 – May 2025
Iribe Initiative for Inclusion and Diversity in Computing, UMD — *College Park, MD*

- Conducted hybrid tutoring sessions in OOP, discrete mathematics, algorithms, and data structures (Java). Awarded tutor with the most returning students in one semester and led 267 sessions in a year.

Personal Projects

Temperature Prediction Project | *Python, Pandas, NumPy, Matplotlib, Statsmodels* — May 2024

- Developed a temperature forecasting project using Python: cleaned and manipulated historical data with Pandas, performed numerical computations with NumPy, built an ARIMA model with Statsmodels to predict U.S. temperature trends, and created interactive visualizations with Matplotlib to showcase seasonal patterns—automating feature engineering and cross-validation to boost accuracy by 25%.

Food Allergy Checker Application | *Python, BeautifulSoup4, Pytest, Git, Docker, Jenkins* — September 2024

- Developed a Python-based allergen checker using BeautifulSoup4 for scraping real-time data from OpenFoodFacts. Built a modular, user-friendly CLI with OOP, string matching and error handling, and integrated Pytest, Git, Docker, and a Jenkins CI/CD pipeline.

Technical Skills

Languages: Java, Python, C, OCaml, Rust, JavaScript, SQL, HTML, CSS, Ruby, R, TypeScript, Go, Haskell, R, Dart, MATLAB, LaTeX, Bash
Libraries & Frameworks: Pandas, NumPy, Matplotlib, SciPy, Plotly, Scikit-learn, TensorFlow, PyTorch, Selenium, BeautifulSoup4, OpenCV, Statsmodels, SpaCy, PyTesseract, PDFPlumber, Seaborn, Flask, FastAPI, Django, Jenkins, React, Node.js, Flutter, LangGraph, LangChain, Relevance AI, MindStudio, n8n, CrewAI, Google ADK