MUHAMMAD AHMER

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PROFESSIONAL SUMMARY

Computer Science graduate with a minor in Data Science, experienced in Python, R, and machine learning for data analysis and predictive modeling. Completed internships and research projects delivering measurable results on real-world datasets. Seeking entry-level ML/data science roles to apply analytics skills and contribute to data-driven solutions.

EDUCATION & RELEVANT COURSEWORK

Bachelor of Computer Science, Minor in Data Science, American University of Sharjah   2020 - 2025
GPA: 3.70 / 4.00 (Magna Cum Laude)
Honors: Eta Kappa Nu (IEEE-HKN), Tau Beta Pi (TBP) Inductee

Machine Learning & Data Mining (CMP466)	A
Foundations of Statistics for Data Science (STA301)	A
Artificial Intelligence (CMP333)	A-
Linear Algebra (MTH221)	A
Senior Capstone (CMP491)	A-

TECHNICAL SKILLS

Programming Languages	Python, R, C++, MATLAB, Bash/Shell
Machine Learning & Data Analysis	pandas, NumPy, scikit-learn
Databases	SQL, Notion Database
Tools & Visualization	Jupyter Notebook, Excel, Git, Tableau

INTERNSHIPS

Data Analysis & Machine Learning Intern   Jan 2026 - Present
Osource Global, Sharjah, UAE

- Developed automated payroll validation and anomaly detection system, estimated to improve accuracy of financial records management by 30%.
- Applied Python, pandas, and ML techniques for predictive modeling; designed data cleaning workflows and visualizations for data-driven decisions.

Software Development and Machine Learning Intern   July 2023 - Aug 2023
Osource Global, Sharjah, UAE

- Developed Python software to manage accounts payable/receivable discrepancies in Excel files.
- Implemented ML module to automatically detect anomalous data; designed user-friendly GUI for analysis and reporting.

WORK / RESEARCH EXPERIENCE

Undergraduate Research Assistant, Department of Statistics   July 2025 - Present
American University of Sharjah

- Conducted statistical analysis and predictive modeling on financial datasets (fan tokens), including web scraping, data cleaning, and visualization.
- Preparing findings for high-impact journals (targeting Q1 publications).

Undergraduate Research Assistant, Department of Computer Science   Mar 2022 - Aug 2022
American University of Sharjah

- Processed and analyzed 3D motion tracking data using Python, Excel, and Jupyter Notebook for experimental research.

Undergraduate Course Grader (AI & Machine Learning)   Aug 2023 - May 2025
American University of Sharjah

- Graded homework and provided feedback; managed submissions and grade uploads efficiently.

PROJECTS

- **Genetic Algorithm-Based EV Charging Station Optimizer**: Designed a Python-based GA to optimize EV charging station locations in UAE.
- **ML-Based Classification & Analysis of Pediatric Appendicitis:** Applied supervised learning in Python on pediatric appendicitis dataset. Enhanced decision tree classifier for pediatric appendicitis management, reducing overfitting and achieving 85% test accuracy.
- **Uber vs. Lyft Statistical Analysis Project:** Conducted R-based visualization, regression, and ML analysis on ride-sharing datasets; highlighted key patterns in pricing and fare type. The project resulted in an offer to a data science research assistant position.
- **ML-Based Android Malware Hybrid Detection:** Enhanced Android malware detection using hybrid ML techniques, achieving 0.7% higher accuracy than prior dataset benchmarks via PCA-based feature selection and hyperparameter optimization.

PUBLISHED PAPERS

- Eleftheriou, M., Ahmer, M., & Fredrick, D. (2025). *Balancing Ethics and Support: Peer Tutors' Experiences with AI Tools in Student Writing.* Contemporary Educational Technology, 17(3).
- Eleftheriou, M., Ahmer, M. (2026, tentatively accepted). *From Brainstorming to Boundaries: Writing Center Tutors' Use of Generative AI.* Journal of Language Teaching and Research.

AWARDS

- Dean's List: Fall 2020, Spring 2022, Fall 2022, Spring 2023, Fall 2024
- Chancellor's List: 2022-2023, 2024-2025
- Petrofac Scholarship Recipient: 2023-2024

REFERENCES

- Available upon request