

Ali Abouelazm

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EDUCATION

Texas A&M University

Bachelor of Science in Data Engineering

- Minor in Mathematics
- Minor in Statistics

Aug. 2023 – May 2027

College Station, TX

EXPERIENCE

Data Science Intern

TCG Digital Solutions LLC

May 2025 – Aug. 2025

Somerset, NJ

- Built an AI-powered soccer highlight detection pipeline integrating SportMonks API, Google Gemini API, and Python (moviepy, pandas), reaching 95% accuracy across 100+ hours of match footage
- Developed automated video alignment modules for kickoff and halftime detection and implemented multi-stage clip refinement workflows, reducing manual analyst review time and improving overall highlight accuracy
- Trained and evaluated gradient-boosting models (XGBoost, CatBoost) on event and tracking datasets to predict match outcomes, and generated tactical visualizations including xG and pass networks for performance analysis

Student Tech

Texas A&M University, Center for Teaching Excellence

Aug. 2025 – Present

College Station, TX

- Building and maintaining BI dashboards and reports using AWS services (S3, Athena, QuickSight) to analyze course engagement, program outcomes, and instructional trends across multiple departments
- Processing, cleaning, and visualizing large institutional datasets with Python (pandas, Matplotlib) to uncover actionable insights supporting faculty development and strategic planning
- Collaborating with senior staff to prepare and present data-driven findings, advancing innovation in teaching and analytics to strengthen faculty development and student learning outcomes

Peer Teacher

Texas A&M University, ENGR 102

Aug. 2025 – Present

College Station, TX

- Mentoring first-year engineering students in Python-based problem-solving, assisting them with loops, conditionals, functions, and data structures while promoting collaboration and coding confidence
- Supporting instructors during weekly lab sessions by guiding debugging, clarifying core engineering computation concepts, and providing constructive feedback on assignments and projects

PROJECTS

PL Predictor | *Python, pandas, NumPy, scikit-learn, BeautifulSoup*

June 2024 – Aug. 2024

- Developed models to predict Premier League standings using historical performance features and tuning
- Automated match data scraping with BeautifulSoup and Selenium for continuous dataset updates

Localytics | *Python, R, SQL, scikit-learn, GeoPandas*

Aug. 2024 – Dec. 2024

- Applied clustering and regression to demographic and behavioral data for market segmentation
- Extracted geospatial insights with GeoPandas and visualized patterns through Tableau dashboards

LEADERSHIP/EXTRACURRICULAR

Tamu Datathon | *Challenges Organizer*

March 2025 – Present

- Directed the creation of Data Science and web dev challenges for 200+ students at TAMU Datathon
- Utilized Python, SQL, and ML libraries such as scikit-learn and pandas to create approachable challenge problems
- Guided participants through real-time debugging, feedback, and data guidance during events

Student Engineers' Council | *EnVision Conference Coordinator*

Dec. 2024 – Present

- Designed and deployed a custom registration system for the EnVision Conference using Flask and PostgreSQL
- Oversaw logistics and communication systems supporting 150+ scholars during university events

TECHNICAL SKILLS

Languages: Python, R, SQL, Java, JavaScript, C/C++, TypeScript, HTML/CSS

AI/ML: scikit-learn, XGBoost, CatBoost, LightGBM, TensorFlow, PyTorch, Keras, Hugging Face Transformers

Libraries: pandas, NumPy, SciPy, Dask, GeoPandas, Statsmodels, Matplotlib, Seaborn, Plotly, Tableau