

Ali Abouelazm

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EDUCATION

Texas A&M University <i>Bachelor of Science in Data Engineering</i>	Aug. 2023 – May 2027 College Station, TX
• Minor in Mathematics • Minor in Statistics	

EXPERIENCE

Data Science Intern <i>TCG Digital Solutions LLC</i>	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 <i>Texas A&M University, Center for Teaching Excellence</i>	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 <i>Texas A&M University, ENGR 102</i>	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 <i>Python, pandas, NumPy, scikit-learn, BeautifulSoup</i>	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 <i>Python, R, SQL, scikit-learn, GeoPandas</i>	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 <i>Challenges Organizer</i>	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 <i>EnVision Conference Coordinator</i>	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