

Abdussalam Raheem

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EDUCATION

Texas A&M University, College of Engineering

College Station, TX

Bachelors of Science in Computer Science (Engineering Honors) | GPA: 3.85

Expected Graduation: May 2027

EXPERIENCE

Undergraduate Research Assistant - Machine Learning for Disease Prediction

College Station, TX

Texas A&M University

May 2025 - Present

- Improved early disease detection for Bovine Respiratory Disease by optimizing a Random Forest model (Scikit-learn), tuning hyperparameters, and engineering 140+ features, resulting in accuracy gains over baseline statistical models.
- Built and deployed a secure RESTful API (Django REST Framework) to deliver real-time disease predictions to livestock researchers, reducing manual analysis time by over 50%.
- Designed and integrated an interactive web UI for veterinarians to input herd health data and instantly visualize risk predictions, improving usability and adoption, and reducing inputs by an average of 10 touches per user.
- Presented weekly technical findings to an interdisciplinary team, coordinating workflow and maintaining the collaborative codebase using Git and Agile methodologies.

PROJECTS

Cfbstocks – College Football Fantasy App

College Station, TX

Technologies: Python, PostgreSQL, Supabase

January 2025 - Present

- Built a PostgreSQL database with 10+ tables to manage player stats, user portfolios, and 1,000+ weekly trades, ensuring fast query performance.
- Led backend development for trade execution and real-time portfolio updates in Python, coordinating with 10+ developers through structured sprint meetings to meet deployment deadlines.
- Deployed secure authentication workflows (sign-up, login, logout) and session management, safeguarding user data.

Predicting Post-Enrollment Earnings: U.S. Higher Education Data

College Station, TX

Technologies: Python, scikit-learn, pandas, NumPy

October-December 2024

- Built predictive models (linear regression, decision trees) to estimate student earnings based on institutional and demographic data.
- Processed and cleaned 50,000+ data points to identify top income predictors, increasing model accuracy through optimized feature selection.
- Presented insights highlighting correlations between college characteristics and graduate earnings to stakeholders.

Roni's Mac Bar Dashboard - Datathon Project Manager

College Station, TX

Technologies: Python, pandas, matplotlib, seaborn, plotly

November 2024

- Led a 4-member team in developing an interactive sales dashboard from 250,000+ transaction records for a local restaurant.
- Implemented rigorous data cleaning, eliminating inconsistencies and improving dataset accuracy by 10% compared to the original configuration.
- Produced visualizations revealing peak sales hours and high-performing menu items, leading to recommendations projected to increase revenue by 12%.

LEADERSHIP & INVOLVEMENT

- **Active Member, Aggie Coding Club** – Participated in hackathons, peer coding sessions, and open-source projects, sharpening team-based problem-solving skills. *(Fall 2023 – Present)*
- **Active Member, Aggie Data Science Club** – Engaged in machine learning challenges and data visualization workshops, applying techniques to real-world datasets. *(Fall 2023 – Present)*
- **Member, National Society of Black Engineers (NSBE), Texas A&M Chapter** – Networked with industry professionals and supported community STEM outreach. *(Summer 2025 – Present)*

HONORS, ACTIVITIES, & SKILLS

Honors: College Board National African American Recognition Award, AP Scholar with Honor, Claes Nobel Academic Excellence Scholarship

Programming Languages: Python, C++, SQL

Tools & Platforms: Git/GitHub, Power BI, Microsoft Office (Excel, Word, Powerpoint), ServiceNow, PostgreSQL, Supabase

Libraries & Frameworks: Scikit-learn, Pandas, NumPy, Pytorch

Certifications: Certified ServiceNow Administrator, AWS Certified Cloud Practitioner, AWS Certified Solutions Architect – Associate

Core Competencies: Team leadership, Agile project management, Process optimization, Data analysis & visualization, Cybersecurity