Abdul Aziz Mohammed

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PROFESSIONAL SUMMARY

Computer Science student poised to contribute advanced expertise in cloud computing, AI, and machine learning to dynamic tech environments. Recognized for driving innovative solutions and strategic data-driven decision-making, merging academic rigor with practical experience in consulting and project leadership.

EDUCATION

Bachelor of Science in Computer Science Expected Graduation: Dec 2024
The University of Texas at Dallas Richardson, Texas
Organizations: Association for Computing Machinery (ACM), AWS Cloud Club, AIS UTD, Consulting Leadership & Development Society (CLDS)

TECHNICAL SKILLS

- **AI and Machine Learning:** Deep Learning, NLP, ML Algorithms
- **Programming Languages:** Python, Java, JavaScript
- **Cloud Technologies:** AWS, Azure, Docker
- **Data Science:** Data Analysis, Jupyter Notebooks
- **Software Development:** Full-stack Development, Agile Methodologies
- **Databases:** MySQL, PostgreSQL

WORK EXPERIENCE

Digital Transformation Consultant September 2022 - Present
Self-Employed, Contracted for AMZ Infotech | Remote

- Led AI strategy development and execution, focusing on NLP and ML applications, resulting in a 18% improvement in operational efficiency and customer engagement.
- Engineered custom AI solutions, including ML-driven predictive models and NLP-based chatbots, increasing customer satisfaction by 23%.
- Performed data analysis using AI tools, uncovering key insights that influenced business strategies, leading to a 32% growth in market reach.
- Automated critical processes using ML algorithms, cutting operational costs by 12% and boosting efficiency.
- Advised on AI ethics and compliance, ensuring responsible and regulation-compliant AI implementation.
- Orchestrated cloud migration for enhanced data management and AI integration, improving system performance by 35%.

PROJECTS

Flood Risk Prediction for Property Owners (Baltimore County)
github.com/abdul-aziz-mohammed/flood-risk-prediction-for-property-owners
Initiated and developed a comprehensive flood risk prediction model focused on Baltimore County, integrating geospatial analysis and environmental data. This personal project involved:

- Utilizing Python libraries such as Geopandas, Rasterio, and CatBoost for spatial analysis and machine learning.
- Analyzing and merging datasets including property assessments and flood probability data.
- Developing a predictive model that accurately assesses flood risks for properties, employing advanced statistical methods and data visualization for effective communication of results.

DynaFit
github.com/abdul-aziz-mohammed/dynafit
Spearheaded the development of 'DynaFit', a full-stack fitness application, focusing on user engagement and health optimization. Key features and accomplishments include:

- Engineered a robust backend using Express.js and integrated AWS services for scalable infrastructure.
- Implemented advanced features like dynamic workout and diet generators, leveraging React for a seamless user experience.
- Developed user authentication and profile management modules to enhance security and personalization.

RELEVANT COURSEWORK

- Advanced Algorithm Design
- Digital Logic & Computer Design
- Database Systems
- Project Management
- Data Structures