Mohd Abdul Kareem Uddin

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**EDUCATION**

## Texas A&M University- Kingsville

Master of Science in Computer Science Graduated May-2025

# TECHNICAL SKILLS

Languages C++, C, HTML, CSS, Python, Golang, Django.

Frameworks/Tools Node.js, React.js, Express.js

Databases MongoDB, PostgreSQL, SQL

Cloud AWS, Oracle

Self-motivated, Leadership, Excellent written and verbal communication skills, Integrity, Result-oriented , Problem-solving.

**EXPERIENCE**

## Graduate Teaching Assistant

## Texas A&M University–Kingsville Jan 2025 – May 2025

## Mentor students in Python, Java, data structures, and algorithms, RDBMS, conduct lab sessions, Object-oriented programming and design and collaborate on course content design and academic assessments.

## Software Engineer Intern

## TechPulse Innovations – Hyderabad, India Aug 2022 – Jan 2023

## Engineered scalable backend APIs leveraging Node.js, TypeScript, and PostgreSQL.

## Deployed cloud-native services with AWS Lambda, containerized apps using Docker, and optimized CI/CD pipelines via GitHub Actions and Collaborated with teams and clients, demonstrating communication, professionalism, and accountability.

## Cloud Engineer, AI/ML- Intern

## AICTE Edu Skills – Hyderabad, India Oct 2021 – April 2022

## Completed hands-on projects in AWS Cloud Architecture (EC2, S3, RDS, Lambda), deploying scalable cloud infrastructure and automation scripts.

## Developed AI/ML models using deep learning, decision trees, and model optimization techniques, refining predictive accuracy.

## Conducted cybersecurity operations including network vulnerability assessments, firewall configuration, and threat mitigation using Palo Alto Networks, gaining comprehensive exposure to enterprise-grade security.

## ACADEMIC PROJECT

Research Thesis

* Designed a hybrid malware detection system using Genetic Algorithm-based feature selection and XGBoost, achieving 99.31% accuracy with reduced computational cost. Worked independently and with peers, showing self-motivation, integrity, and teamwork.
* Utilized advanced Python libraries: scikit-learn, DEAP, scikit-image, NumPy, SciPy, Pandas, Matplotlib, Seaborn, TensorFlow, PyTorch.

Restaurant Management System

* Stack: React.js, JavaScript, PHP, MySQL
* Built a responsive full-stack reservation system with real-time booking, AJAX-based forms, and an admin dashboard. Streamlined backend with optimized MySQL CRUD operations, improving operational efficiency by 35%.

IoT-Based Emission Monitoring

* Stack: IoT Sensors, Embedded C, Wi-Fi/Cellular
* Engineered a real-time IoT solution for vehicle emission tracking with remote diagnostics and wireless telemetry. Increased pollutant detection accuracy by 40% via embedded sensors and live dashboard analytics.

Heart Disease Prediction (Kaggle)

* Stack: Python, XGBoost, Scikit-learn, Pandas
* Developed an interpretable ML model using XGBoost and SHAP analysis for heart disease prediction. Achieved 90% accuracy through advanced feature engineering, outlier detection, and data visualization.

**PUBLICATION**

“IOT based Control System for Air Pollution Detection In Vehicles” at “***The International Journal of Analytical and Experimental Model Analysis***”.

# CERTIFICATION

Python For Everyone, Cyber Security, Cisco Networking, Programming in Python, Data science, Data analysis, IBM Full Stack Developer,

Computer Communication network (Https, Tcp/Ip protocol etc).

# ACHIEVEMENTS & EXTRACURRICULARS

Awarded the Dean’s Merit Scholarship for outstanding academic performance in the Master of Science in Computer Science program at Texas A&M University–Kingsville.

Participated in a university-level Hackathon focused on AI/ML innovation and real-time problem solving.