

Dr Shubham Kuppili

Assistant Professor || Odessa College , Odessa , Texas,USA-79764

✉ shubhamkuppili@gmail.com ☎ 432-308-6044 📍 3727 Andrews Highway , Odessa , Texas

🌐 Shubham Kuppili LinkedIn

Objective

- Seeking to join a small liberal arts college dedicated to providing a comprehensive education to its students and prioritizing recruitment and retention initiatives. Proficient in instructing various undergraduate and graduate subjects such as Computer Science fundamentals, Programming, Data Science, and Artificial Intelligence.

Core Capabilities

- Computer Science Databases Network Data
- Data Science Advance Web Cybersecurity
- Artificial Intelligence Software Engineering Operations Systems
- Problem-Solving Strong Analytical
- Programming Languages

Skill Set

- Programming Languages: C#, ASP.NET 📄, ASP.NET 📄 MVC, Entity framework, CSS, HTML5, JAVASCRIPT, PYTHON, Power Shell, Strong Debugging and Analytical skills.
- Databases: MSSQL, MySQL and Oracle. ▪ Tools and Software: Visual Studio Code, Visual Studio, MSSQL enterprise, Eclipse, ServiceNow, MySQL Workbench, Azure Boards, GitHub, Python IDE.
- Frameworks, Cloud: Scrum Project Management, Agile Methodology, Azure cloud, TFS, Microsoft Azure, DevOps Azure, Machine Learning

Education

Master of science in Computer science, Texas Tech University

08/2021 – 05/2023

- Coursework: My proficiency extends across Web Programming, Game Development, Artificial Intelligence, Advanced Web, Data Science, Virtual Reality, Cybersecurity, Mobile Development, and Informatics. Additionally, my knowledge in Machine Learning and Natural Language Processing further enriches my skill set in computer science and data science. This educational background underscores my robust foundation in these fields and showcases my capability to utilize machine learning methodologies to tackle intricate challenges within natural language processing.

Lubbock, United States

Bachelor Of Technology in Information Technology,

08/2015 – 04/2019

Anil Neerukonda Institute Of Technology And Sciences

Visakhapatnam, India

- Coursework: Coursework includes studies in Computer Programming and Numerical Methods, Python programming, Partial Differentiation, Multiple Integrals, and Fourier Series, along with their practical applications. Networking, their encryptions, web development, game designing, database management systems and many more courses which are required to excel in this modern world.

Doctor Of Philosophy, Mangalayatan University

The research synopsis focuses on developing a **deep learning-based approach for detecting and preventing cyber-attacks in Internet of Things (IoT) networks**. It addresses the limitations of traditional security mechanisms in handling evolving threats, heterogeneous IoT devices, and resource-constrained environments. The proposed framework uses advanced deep learning architectures to analyze network traffic, identify anomalies, and respond to cyber threats in real time. It also emphasizes effective data preprocessing, scalability, adaptability, and improved detection accuracy while reducing false alarms. Overall, the research aims to create an intelligent and reliable security framework that improves the protection and resilience of IoT networks against both known and emerging cyber-attacks.

06/2023 – 06/2026
Aligarh , Uttar Pradesh ,
India

Professional Experience

ASSISTANT PROFESSOR, ODESSA COLLEGE

- Develop and deliver lectures, seminars, and laboratory sessions.
- Design syllabi, course materials, and assignments tailored to course objectives.
- Grade and evaluate student work, providing constructive feedback.
- Supervise student projects, theses, or dissertations.
- Conduct office hours to assist students with academic inquiries

08/2024 – present
Odessa, United States

TEACHING ASSISTANT, TEXAS TECH UNIVERSITY

- Assisting professor and other Teaching Assistants as and when required.
- Grading the exams and assignments.
- Creating teaching material.
- Preparing PowerPoint presentations for the class lectures.
- Assisting students who need special care.

08/2023 – 05/2024
Lubbock, United States

SOFTWARE DEVELOPER, HOTSPARE E-SERVICES PRIVATE LIMITED

Successful delivery of IT projects for our clients, using best practices and methodologies such as ITIL, Agile.

- Overseeing the work of team members who are creating new web applications or improving current ones.
- Coordinating and interacting with external parties to establish technical options and project goals.
- Teaching the group best practices for software development (design, coding, troubleshooting, work breakdown, work estimation, refactoring techniques, automated testing) through mentoring.
- Updated the web application to the most recent version of the .Net framework to mitigate the security concerns associated with employing out-of-date VB and .Net frameworks.
- Worked on projects from conception to completion, including project identification, client outreach and coordination, gathering user requirements, effort and cost estimates, team development, rigorous testing, deployment, and postproduction maintenance.

04/2019 – 02/2021
Visakhapatnam, India

SOFTWARE INTERN, HOTSPARE E-SERVICES PRIVATE LIMITED

- Documentation of whole project of “DIGI SMS”
- Handled whole project migration from “DIGI SMS” to “DIGITAL EXAM”
- Software testing of whole project “DIGITAL EXAM”
- Handling data base systems of “BUCKET CAR”

01/2019 – 04/2019
Visakhapatnam, India

- Designing the front end for “Olive Cargo”
- Designing the front end for “VIMS IN Patient and Outpatient “
- Designing the models for question patterns in “DIGITAL EXAM”

TECHNICAL ARTISTIC INTERN, KHADGA ENTERTAINMENT PRIVATE LIMITED

- Designing, building, and maintaining reusable code
- Prototyping new games in Unity-3D • Testing and debugging of new games.

06/2018 – 07/2018
Visakhapatnam, India

Projects

FULL TIME PROJECTS:

- Worked on architecture for the project “DIGITAL LIBRARY MANAGEMENT SYSTEM” and “DIGITAL HOSTEL MANAGEMENT SYSTEM”
 - Worked on designing the project plan for “DIGITAL LIBRARY MANAGEMENT SYSTEM” and “DIGITAL HOSTEL MANAGEMENT SYSTEM”
 - Worked on complete development of “DIGITAL LIBRARY MANAGEMENT SYSTEM” and “DIGITAL HOSTEL MANAGEMENT SYSTEM”
 - Worked on database designing and coding using MYSQL for “DIGITAL LIBRARY MANAGEMENT SYSTEM” and “DIGITAL HOSTEL MANAGEMENT SYSTEM”.
 - Playing Database Admin Role & Working on “OLIVE CARGO” Project (Logistics).
 - Worked on multi page registration and cellar page development for “BUCKET CAR “project.
- Worked on VIMS hospital patient management System (OP card generation on patient registration).

Publications

Evolution of Mobile Wireless Communication: A Comparative Analysis from 1G to Emerging 7G Technologies",

04/2025

International Journal of Information and Electronics Engineering (IJIEE)

The field of mobile wireless communication has witnessed remarkable advancements over the past few decades, evolving through multiple generations to enhance connectivity, speed, and reliability. The journey began with 1G, followed by successive improvements in 2G, 3G, 4G, and the current development of 5G. Ongoing research is paving the way for future generations, including 6G and 7G, which promise revolutionary changes in wireless communication.

1.CONVOLUTIONAL NEURAL NETWORKS FOR REAL TIME DETECTION OF WATER CONTAMINANTS AND MEDICAL HEALTH RISK PREVENTION,

01/2025

Sociedad Andaluza de Fisioterapia. SOFIA.

This study presents an AI-driven early detection system using CNNs to monitor formaldehyde contamination in water, ensuring safer water for industrial and residential use. By integrating sensor data and predictive modeling, it enhances preventive healthcare and mitigates toxic exposure risks. The system’s high sensitivity minimizes false positives, protecting public health from waterborne diseases.

Blockchain Based Financial Networks Enabling Faster and Safer Transactions for Global Cryptocurrency Marketplaces, *Aegaeum Journal, Vol 13, No 1, pp 100- 112*

05/2025

The rapid rise of blockchain technology has significantly reshaped digital transaction frameworks across various industries. As the demand for virtual financial systems grows, understanding the role of blockchain in accelerating cryptocurrency adoption becomes crucial. This study aims to explore how blockchain's decentralized architecture impacts the efficiency, security, and overall feasibility of crypto transactions.