

# SAFDAR NIZAM MOHAMMED

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## Education

### Florida Atlantic University

Masters in Computer Science

Florida, USA

Expected Graduation: Dec 2025

### Osmania University

Bachelors of Engineering in Computer Science

Hyderabad, India

Sep 2019 - Aug 2023

## Projects

### 1) Neural Network Scientific Discoveries

January 2024- April 2024

Tools used: Python, PyTorch, TensorFlow, GNN, Transformers, Reinforcement Learning

- Enhanced material property prediction by developing GNN and Transformers, leading to improved accuracy, efficiency.
- Automated research insights extraction by building a scientific paper parsing module, increasing analysis speed.

### 2) Decentralized AI Marketplace with Blockchain

June 2023- October 2023

Tools used: Blockchain, Hyperledger Fabric, Federated Learning, Homomorphic Encryption

- Enabled secure AI model transactions by designing a decentralized marketplace using Hyperledger with transparency.
- Strengthened data privacy by integrating federated learning, homomorphic encryption, reducing unauthorized access.
- Improved data exchange security by implementing robust protocols, enhancing compliance with industry standards.

### 3) Dark Net Traffic Detection System

February 2023- May 2023

Tools used: Python, XGBoost, CNN-GRU, Attention Mechanism

- Increased darknet traffic detection efficiency by integrating XGBoost and CNN-GRU, giving higher threat identification.
- Improved encrypted network classification by implementing an attention mechanism, giving better anomaly detection.
- Enhanced real-time monitoring by optimizing deep learning models, reducing false positives in network security analysis.

## Work Experience

### 1) MaanPaa INTL PVT.LTD.

Hyderabad, India

Cybersecurity Analyst

September 2022 – February 2023

- Deployed advanced network monitoring tools (Wireshark, Snort) to detect and mitigate external threats.
- Conducted vulnerability assessments using Nessus, strengthening critical systems and enhancing compliance.
- Collaborated with IT teams to implement firewall solutions (Cisco ASA) and strengthen system hardening techniques.

### 2) Bio-Medical Health Records

Hyderabad, India

Research and Development Team Lead

May 2022 – August 2022

- Led the development of a blockchain-based health records management system using Hyperledger.
- Managed a team of 5 developers, ensuring secure management of 10,000+ patient records across 3 hospitals.
- Researched and integrated privacy protocols (RSA encryption, SHA-256), enhancing patient data security by 13%.

### 3) Focus Softnet

Riyadh, Saudi Arabia

Software Development Intern

June 2021 – September 2021

- Accelerated ERP system performance by Python and MySQL, improving data processing speed by 15%.
- Reduced customer-reported issues by identifying, troubleshooting, resolving software bugs, enhancing system reliability.
- Increased data accuracy by optimizing database integrity across client systems, ensuring seamless and 0 error operations.

## Skills

- **Technical Skills:** Python, SQL, Java, TensorFlow, PyTorch, Power BI, Tableau, MySQL, AWS, Docker, Kubernetes, Hyperledger, Federated Learning, Terraform, GraphQL, Hadoop, Bash Scripting, C++, LangChain.
- **Tools & Technologies:** Microsoft Excel, Pandas, Matplotlib, Nessus, Wireshark, Git, Jira, Trello, Azure, Splunk.