

MOHAMMED EHTESHAM UL BAQUI

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WORK EXPERIENCE

Cosyn Limited | Internship

Sep 2025 - Jan 2026

Software Developer Engineer

- Developed a scalable AI-powered Assignment Grading Platform leveraging NLP and Machine Learning to automate evaluation across essays, coding tasks, and objective assessments, reducing grading effort by 60–70%.
- Implemented rubric-based scoring, bias/fairness controls, plagiarism detection, and instant feedback generation, ensuring consistent and transparent assessment at scale.
- Designed an LMS-integrated cloud architecture with real-time analytics dashboards, enabling institutions to handle thousands of submissions efficiently while improving learner engagement and outcomes.

Ministry of Panchayati Raj - MoPR

Dec 2024

Policy and Action Research | Intern

- Successfully participated in government internship program focused on digital governance and rural development initiatives
- Contributed to policy research and data analysis supporting panchayat-level administrative improvements
- Gained insights into e-governance frameworks and digital transformation strategies for rural India.

PanTech Solutions (Summer Internship)

Mar 2024 - Jun 2024

Generative Ai |

- Built an anomaly detection system using Convolutional Neural Networks (CNNs) to identify suspicious criminal activities (robbery, homicide, vandalism) from surveillance and crime-related datasets.
- Trained deep learning models on labeled behavioral patterns to detect abnormal movements and unusual events, enabling real-time monitoring for proactive crime prevention.

CSRBOX Institute In collaboration with IBM SkillsBuild

May 2023 - Aug 2023

Cyber Security | Research Intern

- Conducted a detailed cybersecurity case study on the "Pager Blast" attack, analyzing phishing-based malware delivery, system compromise, and sensitive data exfiltration in critical infrastructure environments.
- Performed OSINT-driven threat intelligence investigations using tools such as Maltego, Shodan, Recon-ng, and The Harvester to identify attacker patterns and enhance proactive defense strategies.
- Explored modern incident response and SIEM frameworks, including IBM QRadar Security Intelligence Platform and AI-powered tools like GeoSpy.AI, for real-time threat detection, geolocation, and predictive analytics.

PROJECTS

Smart Inventory Management System

- Developed a Python and MySQL-based tracking system using time-series forecasting to automate stock monitoring and optimize inventory levels for small businesses.

Student Performance Prediction

- Engineered a predictive model using Feedforward Neural Networks and Scikit-learn to analyze academic and behavioral data for student outcome forecasting.

Face Generation using GANs

- Implemented a Generative Adversarial Network (GAN) in TensorFlow to synthesize high-fidelity facial images by training on the CelebA dataset.

Lung and Colon Cancer Detection

- Developed a histopathology image classifier leveraging ResNet50 transfer learning and data augmentation in Keras to automate cancer detection with high model accuracy.

LEXES - AI Virtual Assistant

- Created a voice-automated assistant using Python, NLP, and Speech-to-Text APIs to execute web searches, emails, and system commands with high recognition precision.

Anomaly Detection in Surveillance

- Built a real-time deep learning system using hybrid CNN-LSTM and 3D-CNN architectures in Python and TensorFlow to detect spatial and temporal anomalies in video feeds.

RESEARCH PUBLICATION

Predicting Student's Academic Performance Using Deep Learning

International Journal of Latest Technology in Engineering, Management & Applied Science - Vol 14 | No. 5 | 2025

Anomaly Detection Using Convolutional Neural Networks for Crime Prevention: A Deep Learning Approach

International Journal of Latest Technology in Engineering, Management & Applied Science - Vol 14 | No. 6 | 2025

SKILLS

Technical Skills: AI/ML & Deep Learning | Automation | Cyber Security Research| Database Management | Data Visualization
| Data Analytics | Software development

Languages, Tools and Libraries: Python | Java | C | JavaScript | HTML5 | CSS3 | MySQL | MongoDB | TensorFlow | Keras |
PyTorch | Scikit-learn | Pandas | NumPy | Power BI | Tableau | MS Excel | Git | GitHub | VS Code | Jupyter Notebook | IBM QRadar
| Shodan | Maltego

Soft Skills: Critical Thinking | Problem Solving | Team Collaboration | Research & Documentation | Leadership

EDUCATION

Osmania University - LIET

Bachelors - CS | Nov 2022 - Aug 2026 | 3.6/4

LEADERSHIP, VOLUNTARY ROLES, CERTIFICATIONS G AWARDS

Organizing Committee - SANKETIKA | Hajj Committee Coordinator | CSI Executive | Class Representative (60+)

Cybersecurity (IBM SkillsBuild) | **Generative AI (PanTech)** | **Cloud Computing (NPTEL-SWAYAM)**

Departmental Hackathon Winner (2024) | **Project Expo Winner (2x)** | **HACKPRIX Selected Competitor** | **STEM Mentor**