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
- De 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