

# UPLIFT LEARNING AND EDUCATION FOUNDATION (ULEF)

EMPOWERING ENGINEERS. ADVANCING PAKISTAN.

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## WHO WE ARE

The Uplift Learning and Education Foundation (ULEF) is a Not-For-Profit initiative founded by experienced technologists who believe that Pakistan's future rests on the strength of its engineers and scientists and in the adoption of emerging technologies.

## WHY ULEF EXISTS

Pakistan produces thousands of engineering graduates every year, yet many struggle to meet the demands of modern industry and global markets. Financial hardship, limited practical exposure, underfunded research, and outdated infrastructure continue to restrict the full potential of students and institutions alike.

ULEF was established to address this critical gap and empower capable minds to help build a stronger, self-reliant Pakistan.

## WHAT WE DO

ULEF supports engineering institutions and students through targeted, high-impact initiatives:

- **Student Support:** Merit and need-based scholarships covering tuition and accommodation, enabling deserving students to pursue engineering education with dignity and focus.
- **Professional Development:** Industry-aligned training programs, certifications, and internships that equip students with practical skills and real-world experience.
- **Faculty Empowerment:** Research grants and academic support to encourage innovation, applied research, and excellence in teaching.
- **Infrastructure Enhancement:**  
Development and upgrading of laboratories, research facilities, and essential academic infrastructure to meet modern engineering standards.

## OUR VISION

ULEF envisions a future where Pakistani engineers are globally competitive, industry-ready, and innovation-driven; equipped with knowledge, creativity, and practical expertise.

By investing in students, faculty, and institutions, ULEF aims to create lasting impact, strengthening engineering education ecosystems and contributing to national progress, economic growth, and technological advancement.

## OUR COMMITMENT

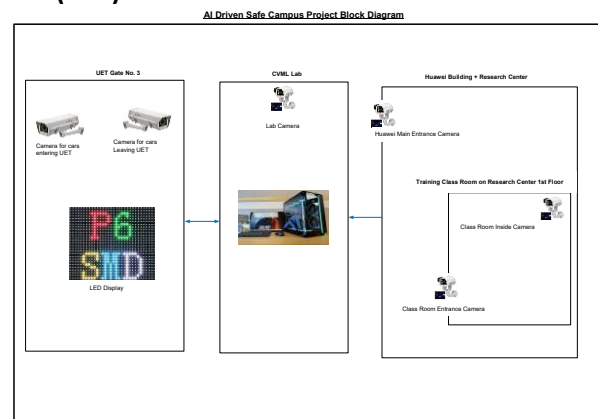
Through scholarships, training, research, and infrastructure support, ULEF empowers aspiring engineers to reach their full potential and play a meaningful role in shaping Pakistan's future.

## Uplifting Minds. Building the Future.

## ULEF CONTRIBUTION TO UET LAHORE

As part of its mission to uplift engineering education and accelerate technology adoption in Pakistan, ULEF, in collaboration with global UET alumni networks, has made focused, high-impact contributions to the University of Engineering & Technology (UET) Lahore. These initiatives are designed to strengthen infrastructure, expand access to emerging technologies, and create meaningful learning opportunities for students and faculty.

### 1. AI-Driven Safe Campus – Proof of Concept (PoC)



ULEF Pakistan has actively supported UET Lahore in launching an AI-Driven Safe Campus initiative, aimed at enhancing campus security, operational intelligence, and digital transformation. The project leverages AI, computer vision, and edge computing technologies to enable real-time people counting, crowd analytics, anomaly detection, and smart surveillance across key campus zones.



In addition to providing campus safety, this initiative serves as a living laboratory for students and researchers, providing hands-on exposure to applied AI systems, data analytics, and real-world deployment environments.

## 2. AI & Digital Skills Programs for School-Level Students

ULEF has fully sponsored online AI & Digital Skills training programs hosted by UET Lahore for secondary and higher-secondary school students across Pakistan. These programs focus on foundational AI concepts, Generative AI, creativity tools, and future digital skills—delivered by UET faculty and NCAI experts.



Special emphasis is placed on students from remote and underserved regions, ensuring equitable access to high-quality technology education and early exposure to engineering and AI pathways.

## 3. Academic & Student Innovation Support (Conferences & Competitions)

ULEF has contributed to strengthening UET’s academic and innovation ecosystem by supporting international conferences, student competitions, and innovation platforms, including sponsorship of student-focused activities at ICOSST 2025.



One of the dynamic segments of ICOSST 2025 was the Brainiac Competitions, which encouraged student participation in idea generation, coding challenges, and creative problem-solving. These contributions promote a strong research culture, open-source engagement, and student creativity, while connecting UET learners with national and international academic communities.

## 4. National Initiative for Generative AI Skills Development

ULEF, in collaboration with PakAngels and with the support of the National Computing Education Accreditation Council (NCEAC), Pakistan, have successfully delivered two intensive six-week training programs in Generative AI. With participation exceeding 20,000 students and faculty from all 270 public and private sector universities across the country, the program represents one of the largest coordinated national efforts to build practical AI capacity in Pakistan.

The program delivers tangible outcomes, including internationally recognized certification, hands-on AI application development skills, and improved

employability. By fostering creativity and enabling access to global freelance and digital work opportunities, this initiative contributes directly to national workforce readiness and positions Pakistan to compete effectively in the global AI-driven economy.

## 5. Initiative for Soft Skills Development



ULEF launched the inaugural Soft Skills Training program during the summer of 2024. The first cohort consisted of 12 students representing 9 UET departments. Over a rigorous one-month training and development period, the students acquired a broad range of professional, communication, and presentation skills essential for today's job market. Most of these students were placed as interns with local and international companies.

## 6. Flagship project to establish a state-of-the-art AI-ML Lab at UET Lahore with support from ULEF USA



### Why This Initiative Matters

Cutting-edge facilities enabling students and faculty to explore AI, machine learning, and data science.

A future where every UET student, regardless of department, has access to cutting-edge AI/ML tools, empowered to create, innovate, and lead. This lab will nurture the next generation of

engineers, scientists, and entrepreneurs who will drive Pakistan's technological growth.

## Join Us in Shaping the Future!



### Long-Term Impact

Through these targeted interventions, ULEF continues to play a strategic role in:

- Enhancing technology infrastructure and applied research
- Expanding AI literacy and digital skills beyond traditional classrooms
- Empowering students and faculty with practical, future-ready capabilities

ULEF's collaboration with engineering institutes reflects a shared commitment to building a globally competitive, innovation-driven engineering ecosystem for Pakistan.