

# AZKA IKRAMULLAH

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## OBJECTIVE

AI researcher and engineer with a strong foundation in machine learning and generative models, currently exploring cutting-edge challenges in **LLM Security**, **FinTech Innovation**, and **Sustainable AI Systems**. Passionate about developing socially responsible, ethically aligned, and security-hardened AI solutions that drive meaningful impact across global sustainability and financial ecosystems. Eager to contribute to research-driven environments where advanced AI techniques meet real-world challenges.

## EDUCATION

**Master of Science in Computer Engineering**, Gachon University, South Korea Mar 2025 – Present

- **Focus Areas:** Advanced Machine Learning, Artificial Intelligence, Cloud Computing
- **Ongoing Research:** LLM Security, FinTech Innovation, Sustainable AI Systems

**Bachelor of Science in Information Technology**, Air University, Islamabad, Pakistan May 2019 – May 2023

- **Final Year Project:** Developed a PTSD prediction model using textual data, achieving 97.56% accuracy
- **Relevant Coursework:** Artificial Intelligence, Data Science, Software Engineering, Machine Learning

## SKILLS

<b>Technical Skills</b>	Python, Swift, Objective-C, Django (RESTful APIs), Bash
<b>AI / ML</b>	Generative AI, Fine-Tuning Models, NLP, Computer Vision
<b>Cloud</b>	AWS (EC2, S3, Lambda), Google Cloud Platform (GCP), Docker, CI/CD
<b>Tools</b>	TensorFlow, PyTorch, Google Analytics
<b>Soft Skills</b>	Team Leadership, Remote Collaboration, Technical Training, Communication

## ACADEMIA / RESEARCH EXPERIENCE

**Master's Researcher, Computer Engineering** Mar 2025 – Present  
Gachon University, South Korea

- Conducting research on **LLM Security**.
- Investigating adversarial robustness and safe deployment of generative models under resource-constrained settings.
- Exploring cloud-scalable AI architectures with privacy-aware guardrails.

**FinTech Research Collaborator** Jan 2024 – Present  
University of East London (with Dr. Fahimeh jafari) *Remote*

- Contributing to AI-driven sustainability frameworks in financial systems, aligned with ESG and SDG goals.
- Authored a research paper on PTSD detection using NLP techniques, achieving 97.56
- Focusing on risk mitigation in AI models for credit scoring, fraud detection, and ethical automation in banking.

**International Research Collaborator – Sustainability & AI Ethics** 2023 – Present  
Remote (with teams in the UK and Norway)

- Participated in collaborative research on responsible AI development, focusing on social and environmental implications.
- Co-developed an evaluation matrix for sustainable AI practices in real-world deployments.
- Provided input on generative model alignment with responsible innovation principles.

INDUSTRY EXPERIENCE

<b>AI Process Automation Engineer</b> Stealth Mode AI Startup	May 2024 – Present <i>Islamabad, Pakistan</i>
<ul style="list-style-type: none"><li>• Deployed AI models on AWS and Google Cloud (GCP), enhancing performance and scalability.</li><li>• Developed Generative AI applications, including a GPT-4-powered medical chatbot.</li><li>• Built automated testing pipelines for chatbots, enabling real-time monitoring and iterative improvement.</li><li>• Optimized RESTful Django APIs to streamline AI model integration.</li><li>• Improved model efficiency and reduced cloud deployment costs by 60% through fine-tuning and dataset engineering.</li><li>• Automated sentiment analysis on 20,000+ restaurant reviews using NLP pipelines.</li></ul>	
<b>iOS Developer</b> FitFlex	Sep 2023 – Mar 2024 <i>Islamabad, Pakistan</i>
<ul style="list-style-type: none"><li>• Designed and launched Swift-based iOS apps compliant with Apple’s UX guidelines.</li><li>• Built an ML-based message classifier, improving classification accuracy by 70%.</li><li>• Led an AdTech initiative to predict user call behavior, optimizing marketing campaigns.</li></ul>	

INTERNSHIPS

<b>Research and Development Intern</b> Bio-AI Lab, Tromsø, Norway	Mar 2024 – Present <i>Remote</i>
<ul style="list-style-type: none"><li>• Writing a review paper on Sustainable AI Approaches for Edge Devices.</li><li>• Conducting practical research on energy-efficient AI techniques.</li><li>• Collaborating with international teams to evaluate low-power algorithms for environmental sustainability.</li></ul>	
<b>iOS Developer Intern</b> Switch Communications, Islamabad, Pakistan	Sep 2023 – Nov 2023
<ul style="list-style-type: none"><li>• Developed and deployed iOS apps with integrated ML features for enhanced user experience.</li><li>• Spearheaded app design with high user engagement focus.</li></ul>	
<b>Python Intern – Audio Forensics</b> National Cybercrime Forensics Lab, Air University, Islamabad	Jun 2022 – Sep 2022
<ul style="list-style-type: none"><li>• Built ML models for rare event classification in audio data, achieving 90% accuracy.</li><li>• Created and annotated a custom audio dataset, and developed a web-based application.</li></ul>	
<b>Innovation Consultant Intern</b> GlobalShala, India	Jun 2022 – Jul 2022 <i>Remote</i>
<ul style="list-style-type: none"><li>• Worked on startup innovation strategies with a focus on experimentation and risk analysis.</li><li>• Contributed to entrepreneurship projects through strategic planning and analytics.</li></ul>	
<b>M-Labs Fellow – Game Development</b> Mindstorm Studios, Lahore, Pakistan	Jul 2021 – Sep 2021
<ul style="list-style-type: none"><li>• Developed a hyper-casual Unity game “Rob it All” in a multidisciplinary team.</li><li>• Trained in 3D modeling, Unity, Blender, and gaming pipeline fundamentals.</li></ul>	

FELLOWSHIPS, TRAINING & ACADEMIC PROGRAMS

<b>FYP Accelerator Fellow</b> 10Pearls Pakistan	Oct 2022 – Jun 2023 <i>Islamabad, Pakistan</i>
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- Selected for a competitive program bridging academia and industry through mentorship and best practices.
- Worked on a machine learning-based final year project under supervision of senior engineers.

### Graduate Trainee (AI Track)

Dawlance (Arçelik Group)

Jun 2022 – Sep 2023

Karachi, Pakistan

- Completed intensive training sessions in career development and applied AI.
- Collaborated on a real-world ML project under industry mentorship.

### MENA Machine Learning Winter School 2025

Qatar Computing Research Institute (QCRI)

Feb 2025

Doha, Qatar

- Participated in technical workshops and lectures from leading ML researchers across MENA.
- Topics included Responsible AI, LLMs, and Federated Learning.

## PROJECTS

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**Skin Treatment Visualizer (Stable Diffusion)** A web-based tool simulating aesthetic treatments (e.g., Botox, fillers) on uploaded images using Stable Diffusion. Users can visualize cosmetic outcomes in real time.

**SOP Generator (GPT-4)** An AI-powered generator that creates tailored Statements of Purpose using user inputs and GPT-4. : [github.com/Azka1212/SOP-Generator](https://github.com/Azka1212/SOP-Generator)

**PoseNet Shoulder Width Estimator** Estimates shoulder width and depth from front and side pose images using keypoints extracted via PoseNet. Useful for fitness tracking and virtual try-on systems.

**Multi-Specialty Medical Chatbot (GPT-3.5)** FastAPI-powered AI chatbot delivering expert responses across cardiology, psychiatry, and dentistry using specialty-specific prompt templates.

**Student Study Guide Assistant** Django-based educational platform offering 9 GPT-powered modules, including quiz generators, transcript-based Q&A, and draft writers.

**AI Story Generator** A storytelling tool using GPT-3.5 that crafts personalized narratives for users based on genre and input prompts. : [Story AI - Google Play](#)

**AI Code Assistant API (GPT-4)** A developer productivity API offering endpoints for code generation, bug fixing, explanation, and image-to-code transformation.

**PTSD Prediction Tool (Text-based Neural Network)** Built a text-based neural model to detect PTSD from patient records, achieving >97

**Heart Disease Prediction (ML Model Suite)** Applied and compared ML models (e.g., RF, KNN, SVM) to predict heart disease based on structured health datasets.

**Breast Cancer Classification (ML)** Implemented classification models to detect malignant vs. benign tumors using patient feature vectors and cross-validation.

**Bank Customer Retention Analysis** Analyzed bank marketing data and trained predictive models to forecast customer term deposit subscription behavior.

**Microsoft Stock Price Forecasting (LSTM)** Built an LSTM-based model to forecast MSFT stock prices using time series data spanning a decade.

**Prolog-Based Puzzle Game (Iterative Deepening)** Designed a Prolog game using Iterative Deepening Search to solve 5x5 pathfinding problems with GUI-based player interaction.

## EXTRA-CURRICULAR ACTIVITIES

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- Actively post about the latest trends and developments in AI, machine learning, and sustainable computing on LinkedIn and GitHub project pages, fostering technical discussion and knowledge sharing.

- Regularly participate in social and academic initiatives focused on community building, mentorship, and outreach within the tech ecosystem.
- Launched a YouTube channel to share insights on AI trends, research breakdowns, and practical tutorials for students and early-career professionals.

## **LEADERSHIP**

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- Led cross-functional teams across 3+ international research collaborations (UK, Norway, Korea) focused on Sustainable AI, LLM Security, and FinTech, contributing to multi-author publications and joint project deliverables.
- Managed and mentored a team of 10 interns for a large-scale review management system project, improving annotation throughput by 75
- Served as ML Tutor at Teeny Coders, educating over 50+ students worldwide with a 95
- Initiated a public-facing YouTube channel to share research tutorials and AI project walkthroughs, expanding outreach to early-career professionals and students.