MUHAMMAD AHMED

ARTIFICIAL INTELLIGENCE ENGINEER

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ABOUT ME

I am a highly skilled AI student with a solid foundation in machine learning, deep learning, computer vision, and natural language processing. I actively engage in project-driven work that enhances my technical expertise. I believe in the power of community and collaboration to drive impactful solutions and inspire others in the field. My goal is to leverage my knowledge and skills to contribute to meaningful advancements in AI while fostering creativity and support within the tech community. I am eager to collaborate with forward-thinking organizations to make a positive difference through technology.

EDUCATION

UNIVERSITY OF MANAGEMENT AND TECHNOLOGY — **Lahore, Pakistan**
Bs Artificial Intelligence | *CGPA: 3.66* (2021 - 2025)

PAKISTAN INTERNATIONAL SCHOOL JEDDAH — **Jeddah, Saudi Arabia**
Pre-Engineering (2019 - 2021)

PROFESSIONAL SKILLS

- **Programming & Web Development:** *Python, C++, JavaScript, Html, CSS, Flutter*
- **AI Tools & Frameworks :** *TensorFlow, Keras, Scikit-learn, Hugging Face Transformers, OpenCV*
- **Data Analysis, Visualization & Databases:** *Pandas, NumPy, Matplotlib, Seaborn, Neo4j, MySQL*
- **Cloud & DevOps Tools:** *Microsoft Azure, Google Cloud AI Platform, Git, GitHub*
- **Data & Documentation Tools:** *Microsoft Excel, Microsoft PowerPoint*

WORK EXPERIENCE

UNIVERSITY OF MANAGEMENT AND TECHNOLOGY — **Lahore, Pakistan**
Teacher Assistant (2024 - Present)

- Managed 30+ assignments and quizzes for 100+ students; improved pass rate by 15%.
- Helped 100+ students debug DL models; led to 20% avg. improvement in project grades
- Co-created 5+ teaching aids; boosted engagement by 25%.

UNIVERSITY OF MANAGEMENT AND TECHNOLOGY — **Lahore, Pakistan**
Peer Tutor (2022 - 2024)

- Conducted 20+ sessions on ML/DL, covering CNNs, RNNs, and generative models.
- Increased average student scores by 30% through hands-on tutoring.
- Delivered one-on-one sessions, achieving an 85% student satisfaction rating.

BRITISH AIRWAYS — **Remote**
British Airways (Remote via Forage) (2023 - 2023)

- Analyzed 2,000+ customer reviews, conducted sentiment analysis with 80% accuracy.
- Built a predictive model achieving 90% accuracy for understanding customer behavior.
- Increased sentiment-based satisfaction metrics by 10% in simulated BA project.

CERTIFICATIONS

OpenCV Bootcamp | Link

Machine Learning Specialization | Link

Generative Ai For Everyone | Link

Product Management: Building AI-Powered Products | Link

Version Control | Link

Programming in Python | Link

Exploratory Data analysis for Machine Learning | Link

PUBLICATION

M Ahmed, Usama A,. **"Automated IELTS Assessment: A Multimodal AI-Powered Solution for Language Skill Evaluation",** submitted to **Discover Sustainability**, February 27th, 2025, ***(Revision Phase)***

PROJECTS

VISIONCART: REVOLUTIONIZING SHOPPING WITH AI AUTOMATION

- Uses computer vision to detect cart items in real time, enabling automatic billing.
- Reduces human interaction and waiting time during checkout.

IELTS BAND ASSESSMENT TOOL

- Built an NLP-based tool that scores IELTS modules and provides personalized feedback.
- Integrated Generative AI for response evaluation and improvement suggestions.

STROKEVISAGE: ACUTE AND NON-ACUTE STROKE FACE RECOGNITION

- Deep learning model to detect acute vs. non-acute stroke through facial analysis.
- Used advanced augmentation and CNN architectures to improve detection accuracy.

VOICE CONTROLLED SMART HOME SYSTEM

- Used speech-to-text and TTS modules with ESP32 microcontroller to control home devices.
- Implemented with gTTS, PyAudio, and playsound libraries.

PAKISTAN 2024 ELECTION PREDICTION

- Combined LSTM and logistic regression models for election outcome forecasting.
- Integrated social media sentiment analysis and Power BI dashboards.

COVID-19 DIAGNOSIS USING X-RAYS IMAGES

- Developed a CNN model using Keras with data augmentation for classification.
- Achieved high accuracy for identifying COVID-positive cases in radiographs.