Abdul Haseeb Rashid

Data Science and ML Engineer

rashidhaseeb944@gmail.com | 0311-6784821 | 39/15-B, G-9/2, Islamabad, Pakistan
LinkedIn: Abdul Haseeb Rashid | GitHub: Haseeb's GitHub

Professional Summary

AI and Machine Learning specialist who transforms complex data into actionable business solutions through cutting-edge computer vision and deep learning techniques. With extensive expertise in developing intelligent systems, I engineer sophisticated neural networks and vision algorithms that consistently deliver measurable results. My technical foundation enables me to architect end-to-end ML pipelines that seamlessly scale from prototype to production.

My core strengths include designing custom computer vision applications, optimizing deep learning models, and developing AI-powered APIs using Django and Flask. I excel at deploying scalable machine learning solutions on AWS EC2, integrating with web and mobile platforms, and building robust database architectures that support real-time AI applications across industries. This comprehensive skill set allows me to bridge the gap between advanced AI research and practical business implementation.

Education

- Bachelor of Science in Computer Science – SZABIST University, Islamabad
- Intermediate (Pre-Engineering) – Islamabad Model College for Boys, F-8/4, Islamabad
- Matriculation (Sciences) – Islamabad Model School for Boys, G-6/4, Islamabad

Technical Skills

- **Programming:** Python, Java, JavaScript
- **Web Development:** HTML/CSS, Angular, Django, Flask, Streamlit
- **Computer Vision:** OpenCV (YOLO, Roboflow, Facial Recognition)
- **Machine Learning:** Deep Neural Networks (CNN, RNN, GAN), TensorFlow/PyTorch, Keras
- **Data Analysis:** NumPy/Pandas, Matplotlib/SciPy
- **Database:** PostgreSQL, Firebase
- **Cloud Solutions:** AWS EC2, REST APIs, Model Deployment
- **Development Tools:** VS Code, Jupyter, Google Colab, Android Studio

Professional Projects

- **Smart Guardian - AI-Powered Attendance System [GitHub]**
  - Architected facial recognition system for multi-method attendance tracking using OpenCV and PyTorch
  - Implemented geofencing that automatically marks attendance when authorized users enter designated coordinates
  - Developed real-time location tracking with instant notifications for unauthorized zone entries
  - Engineered alert system for unrecognized face detection with web dashboard notifications
  - Created unified platform that processes attendance via cameras, location coordinates, and manual verification
  - Integrated comprehensive reporting dashboard for monitoring various attendance types and security alerts
- **PhoneBechPK - AI-Powered Smartphone Recognition System [Live] [GitHub]**
  - Developed an AI model for smartphone detection and confidence-based post validation
  - Designed a Django-based API and deployed it on AWS EC2 for high availability
  - Seamlessly integrated AI with a web application for ad posting with confidence scores upto 80%
- **Feature Representation for CNN Compatibility [GitHub]**
  - Implemented Bazgir et al.'s feature representation model, optimizing neighborhood dependencies for CNNs
  - Enhanced model accuracy by refining deep learning architectures

Awards and Achievements

- **Microsoft Azure ML Competition:** Earned multiple badges for outstanding performance in AI model development and cloud deployment
- **Coursera Deep Learning Specialization:** Completed a comprehensive specialization in deep learning, mastering neural networks, CNNs, and feature representation

Core Competencies

- Deploying ML models on AWS EC2 with scalable architecture for enterprise applications
- Implementing computer vision systems using OpenCV for facial recognition and object detection
- Optimizing CNN performance through advanced feature representation techniques
- Building robust backends with Django/Flask APIs and PostgreSQL databases
- Integrating AI solutions across platforms with comprehensive reporting dashboards