Ezzah Shoukat

Nationality: Pakistani   **Date of birth:** 04/08/1994

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🌐 **Website:** github.com/EzzahShoukat

🌐 **Website:** linkedin.com/in/ezzah-shoukat

📍 **Home:** Islamabad (Pakistan)

ABOUT ME

Results-driven Machine Learning researcher with a focus on Natural Language Processing and Data Analytics. Skilled in deep learning, text and image classification, and data visualization with hands-on experience in technical writing and research. Proficient in Python, TensorFlow, Keras, OpenCV, and Power BI. Passionate about leveraging AI for text recognition, sentiment analysis, and document processing.

WORK EXPERIENCE

🏢 *Creatrixe Solutions Ltd, Islamabad, Pakistan*

Software Engineer

[03/2022 – 10/2022]

- Developed and documented RESTful APIs using Swagger.
- Basic knowledge of Node.js, MongoDb, Redis for application deployment.
- Assisted in data warehouse strategy documentation for an online grocery platform.
- Defined scope documents for web applications, outlining technical requirements and timelines.

🏢 *Creatrixe Solutions Limited, Islamabad, Pakistan*

Technical Content Writer

[02/2022 – 04/2022]

- Wrote technical blogs, brochures, and website content on cloud infrastructure.
- UtilizedWordPress, Hemingway, Grammarly, and Quillbot for content optimization.

EDUCATION AND TRAINING

MS Information Technology

National University of Science and Technology (NUST), Islamabad, Pakistan [2018 – 2022]

- GPA: 3.44/4.00
- Thesis: **Attention based bidirectional GRU hybrid model for inappropriate content detection in Urdu language.**
- Focus: Deep Learning, NLP, Machine Learning
- Semester Projects: Image text identification, classification and label prediction (OpenCV, pytessract, LSTM), Sentiment analysis using Twitter API (Twitter API, Flume, Hadoop).

BS in Electrical Computer Engineering

COMSATS Institute of information Technology, Islamabad, Pakistan. [2013 – 2017]

- GPA: 3.30/4.00
- Thesis: **Development of a new tool for better Imaging of High BMI patients**
- Focus: Signal Processing, Ultrasound Image Enhancement, MATLAB Simulations
- Semester Projects: Color and Shape detection in MATLAB, Html website, Digital Clock,Water level detector, Smoke alarm, Audio Equalizer, Infrared audio link.

PUBLICATIONS

[1]

Amir, et al. (2018). Development of a New Tool for Better Imaging of High BMI Patients. In INDJST, vol. 11, no. 27, pp. 1–5.

[2]

Shoukat, et al. (2025). Attention based Bidirectional GRU hybrid model for inappropriate content detection in Urdu language. arXiv, preprint 2501.0972.

SKILLS

Programming Languages:

Python, SQL, C++, Java, MATLAB

Data Science & Machine Learning: TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, NLTK, PyTesseract, UrduHack

Data Analysis & Visualization: Power BI, Looker Studio, Pandas, NumPy, Seaborn

Database Management: MongoDB, Redis

Tools: Visual Studio Code, Anaconda, Jupyter Notebook, Spyder, Google Colab, Git, NetBeans, Docker, phpmyAdmin, Microsoft Excel, MATLAB, MATLAB simulink

Operating Systems: Windows, Ubuntu

Research Skills: Research & Report Writing, TechnicalWriting, Problem-Solving, Team Collaboration

COURSES & CERTIFICATIONS

Course

  • Data Analytics (Leverify LLC, Islamabad, Pakistan)

Workshops

  • Deep Learning for Object Detection and Recognition (Deep Learning Laboratory,NCAI,NUST)
  • Deep Learning for Document Analysis & Recognition (Deep Learning Laboratory,NCAI,NUST)
  • Workshop on LaTeX (COMSATS Institute of Information Technology)

ADDITIONAL INFORMATION

Languages

English (C1), Urdu (C2)

REFRENCES

Available upon request.