

Adil Ahmad


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[in](#) Adil Ahmad

Profile

Research-focused Data Scientist skilled in machine learning, deep learning, NLP, and advanced AI model development for impactful solutions.

Education

- MS** **National University of Computer and Emerging Science**, Data Science Aug 2021 – Dec 2023
- GPA: 3.01/4.00([Verify](#) )
 - **Coursework:** Data Science Tools & Technique, Machine Learning, Deep Learning, Natural Language Processing, Big Data Analytics
- BS** **Islamia College University, Peshawar**, Computer Science Aug 2016 – Dec 2020
- GPA: 3.45/4.00
 - **Coursework:** Web Development, Networking, Database management, Programming, Software engineering, Systems analysis

Experience

- National University of Modern Languages (NUML)**, Lecturer CS Peshawar, Pakistan
Feb 2025 – Working
- Deliver lectures and practical sessions in computer science subjects, ensuring comprehensive coverage of core areas such as programming languages, operating systems, and computer networks
 - Utilize innovative teaching techniques, including hands-on coding exercises, collaborative projects, and case studies to enhance student learning.
- National Center of AI (NCAI)**, Research Assistant Islamabad, Pakistan
April 2024 – Jan 2025
- Extensive experience developing machine learning models using complex datasets and optimizing predictive methodologies.
 - Working in data querying, scripting languages, and statistical tools like Python, and Matlab.
 - Expertise in both supervised and unsupervised learning techniques for various machine learning applications.
 - Working with GenAI, RAG, and LangChain
- University of South-Eastern, Norway**, Early Stage Researcher (Secondment) Borre, Norway
November 2024
- Address ML challenges to improve safety and efficiency in industries.
 - Develop training algorithms to enhance human-machine interaction across industries.
 - Define KPIs to evaluate AI model effectiveness in operations.
- FAST NUCES**, Research Assistant Peshawar, Pakistan
Sep 2023 – Nov 2024
- Design and deploy ML models to address security challenges effectively.
 - Analyze structured and unstructured data to identify patterns and insights.
 - Develop methods for detecting and mitigating backdoors in neural networks.
 - Create visualizations to represent ML model results and analyses clearly.

FAST NUCES, Lab Instructor

- Teaching Programming with Practical Work.
- Teaching Database with practical work.
- Teaching ICT with practical work.

Peshawar, Pakistan
Aug 2023 – Dec 2023

NADRA, Technical Support Officer

- Provide technical support for Digital Census 2023.
- Collecting and analyzing data.
- Preparing progress reports.

Swabi, Pakistan
Jan 2023 – April 2023

NAVTTTC, IT Instructor

- Developing a course outline and lesson plans that meet program and industry requirements.
- Assessing students fairly on course material, projects, and exams.
- Preparing student practical progress reports.

Swabi, Pakistan
Aug 2021 – Sep 2022

Projects

Backdoor Detection & Mitigation in Neural Network

github.com/enalsis/repo 

- Developed algorithms to detect and mitigate backdoors in neural networks.
- Evaluated diverse datasets, and architectures to improve resilience against attacks.
- Designed mitigation strategies reducing backdoor threats without accuracy loss.

Pattern Recognition in low-level language

- Performed Urdu text summarization using encoder-decoder with an attention mechanism.
- Identified patterns specific to low-level language features in Urdu.
- Improved summarization quality by leveraging advanced deep learning architectures effectively.

Medical Report Generation using LLM

- Leveraged LLMs to automate and improve medical report generation accuracy.
- Fine-tuned models on specialized medical datasets for domain-specific relevance.
- Validated generated reports through expert feedback, ensuring clinical quality improvements.

Ocular Toxoplasmosis

- Designed a deep learning pipeline using YOLO for toxoplasmosis detection.
- Combined multiple models to enhance robustness and detection accuracy.
- Fine-tuned pre-trained models to optimize performance and computation time.

Lumber Spine Compression Classification

- Built a deep learning model for lumbar spine compression classification.
- Enhanced diagnostic accuracy using CNN-based spine compression detection techniques.
- Improved robustness with data augmentation and efficient feature extraction methods.

Technologies

Languages: Python, C++, SQL, HTML

Technologies: Machine Learning, Deep learning, NLP, GenAI, RAG, LangChain

Developer Tools: MS Office, Tableau, Excel, Talend (ETL), Jupyter Notebook, LaTeX

Refrees

Dr. Anwar Shah (Assistant Professor)

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