

Ubaid Ullah

Senior Software Engineer

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PROFILE

Senior Software Engineer at NITB and Stanford Code in Place Section Leader, researching deep learning applications in credit risk, mental health assessment, and medical imaging.

EDUCATION

MCS 2010 – Present

Abdul Wali Khan University, Mardan

Thesis: *Student Information System*

MS Computer Science 2022 – 2024

SZABIST University

Thesis: *Application of Deep Neural Network Models for Credit Risk Prediction*

EXPERIENCE

Senior Software Engineer 2021 – Present

National Information Technology Board (NITB), Pakistan

Designing and engineering government-scale software systems, leading backend architecture and contributing to digital transformation initiatives within the public sector.

Founder & Lead Instructor 2014 – Present

Vision Institute of IT

Founded and grew an IT training institute, personally training 800+ students in programming, web development, and computer science fundamentals.

RESEARCH PROJECTS

Credit Risk Prediction using Deep Learning

The deep neural network model outperformed traditional baselines on key metrics (AUC-ROC, F1-score), demonstrating the viability of deep learning for credit risk assessment. This work formed the basis of the MS thesis at SZABIST University.

DASS-42 Mental Health Assessment using Machine Learning

Demonstrated that machine learning classifiers can reliably automate DASS-42 severity scoring, offering a scalable tool for mental health screening support.

Bone Classification using Deep Learning

Achieved strong classification accuracy using transfer learning, highlighting the potential of deep learning to support radiological workflows.

PUBLICATIONS

- Ubaid Ullah (2024). *Application of Deep Neural Network Models for Credit Risk Prediction*.

- Ubaid Ullah (Forthcoming). *Machine Learning Approaches for DASS-42 Mental Health Severity Classification* .

AWARDS & ACHIEVEMENTS

- Stanford Code in Place Section Leader — Stanford University (2025)
- Meta Hacker Cup 2025 — Round 1 Qualified — Meta (2025)
- CS50x Puzzle Day 2025 — Harvard CS50 (2025)
- Bronze Medal, MCS — MCS (2018)

TECHNICAL SKILLS

Python, TensorFlow, Scikit-Learn, Laravel, Vue.js, React, PHP, MySQL