

SHUMAILA ASHFAQ

Assistant Professor
NEDUET

CONTACT

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References

Available upon request.

EXPERIENCE

Mar 2018–Present

Assistant Professor • Software
Engineering Dept • NEDUET

June 2013–Mar2018

Assistant Professor • Software
Engineering Dept • NEDUET

Aug 2012–June2013

Lecturer • Computer Science • FAST-
NUCES

Aug 2012–June2013

Internee • Liaquat National Hospital

EDUCATION

- **PhD (Ongoing)** – Smart Agriculture(Computer Science), NED University
- **ME Computer Architecture & Systems Design** – NED University, Dec 2014-3.6 CGPA
- **BE Computer & Information Systems** – NED University, Dec 2011(CGPA:4.00, Position holder)
- **Intermediate (Pre-Engineering)** – CIBES (Commeccs), Dec 2007
- **Matriculation (Science)** – St. Patrick's Girls High School, Dec 2005
88.35% (Postion holder in school)

TECHNICAL SKILLS

- QGIS,Arcgis,google earthengine,Javascript,
- Programming languages: Python,C,C#, C++, Visual Basic,Assembly Language
- Database management systems : sql server ,Oracle,MongoDB
- Microcontrollers/microprocessors : pic controller 89c51, at90s8515 programming and interfacing, 8086/8088 programming and interfacing
- Simulation and design tools: orcad,lab view, Matlab, electronic work-Bench, Multisim, Ms-Visio, Ms Office ,Masm, Ms Visual Studio

ACHIEVEMENTS

- Achieved 3rd position in BE
- Taught a diverse range of undergraduate and postgraduate courses including *Stochastic Processes, IT Fundamentals, Software Engineering, and Machine Learning Applications*.
- Supervised undergraduate final-year projects (FYPs) focused on **AI, data science, and real-world problem solving**, ensuring strong industry-academia linkage.
- Conducted internship of 3rd year students on “Satellite monitoring of crops”
- Developed **innovative teaching strategies** and conducted various **seminars** such as interactive activities, real-world case studies, and project-based learning to enhance student engagement for industrial exposure of students

RESEARCH ACHIEVEMENTS

- Published research on **crop classification and wheat yield prediction** using remote sensing data and machine learning techniques.
- Conducted interdisciplinary work integrating **satellite imagery, weather data, and computational models** for sustainable agriculture.
- Actively pursuing a **PhD in BCIT (NED University)** with contributions toward food security and precision agriculture research.
- Reviewer/participant in academic conferences and research networks, contributing to knowledge exchange in **AI and agriculture**.
- Six months research work on “Memristor Based Adder Designs” as part of MEngg thesis. • S.Ashfaq and S.Hasan , “Memristor Based Parallel Adder Designs ,” presented at IEEEEP Conference ,Aug,2017,Karachi,Pakistan.