**Manal Zehra**

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# EDUCATION

**National University of Computer and Emerging Sciences (NUCES), FAST Ongoing**

**Program:** BS Computer Science **Relevant Courses:**

Natural Language Processing, Data Mining, Artificial Intelligence, Statistical Modelling, MLops, Software Engineering, Information Security, Web Programming, Data Structures, Operating Systems, Parallel and Distributed Computing, Design and Analysis of Algorithms, Object Oriented Programming, Marketing

# PROFESSIONAL EXPERIENCE

## Cloud Research and Development Intern – Ufone Headquarters, Islamabad June 2023 - August 2023

* Explored and understood the existing architecture of Ufone microservices handling using IBM Middleware version 9.
* Researched Ufone's possible shift to a containerized cloud environment. Delved into containerization, Red Hat OpenShift, Kubernetes, and JBoss Middleware.
* Documented findings and prepared guides for transitioning to containerized cloud applications.
* Addressed complex technical concepts, enhancing understanding in containerization and cloud-native solutions.

## GDSC FAST Coordinator – FAST Islamabad June 2022 - June 2023

Served as the Event Coordinator for the Google Developers Clubs responsible for leading a team of nearly 10 individuals, driving the mission of leading a successful tech event in Nascon 2023, FAST’s flagship event, TechBuzz, with **prize pool of nearly** **60,000 rupees**.

* Officer in GDSC Team Research and Planning, Nascon Carnival Planning, Content Team and Operation Team Officer
* Officer of Team Seminars in Women In Tech (WIT) and Parwaz-e-takkhayul, Event of GDSC

## Summer School on Artificial Intelligence – NUST Islamabad June 2018

* Course Certification – NCAI and winner of Bot Summo Wrestling competition

## PROJECTS

### JobConnect - Final Year Project

* Web application that **revolutionizes the skill evaluation process** by automating **generation of personalized quizzes** based on skills in CVs.
* Implemented a system an efficient and tailored assessment of applicants' skills, allowing for a deeper understanding of their strengths and areas for improvement, thereby facilitating more accurate skill matching between candidates and job opportunities.
* Leveraged several **NLP models** (**NER, ner\_dates, zero\_shot\_classifier, and tagger**) **for Named Entity Recognition (NER) and zero-shot classification,** demonstrating advanced proficiency in NLP and AI technologies.

### End-to-End MLOps for Predictive Maintenance

* Led the design and implementation of an MLOps pipeline, integrating tools like GitHub, DVC, MLflow, and Docker to automate predictive maintenance model deployment.

### Training and Fine-tuning a Speech-to-Text Whisper Pretrained Model in Urdu

* Enhanced a speech-to-text model for the Urdu language, highlighting proficiency in ML model fine-tuning and dataset preparation.

### Encyclopedia of Fiqh

* Employing manual indexing and natural language processing to traverse complex Arabic texts.

### Street Fighter GameBot

* Generate a dataset by playing single player, train a Machine Learning Model, BIZHAWK emulator with AI and implement fight functionality.

### Sahara - Food Donation Application

* A donation management application with Grasp design pattern, Business Logic done in Java, UI done in JavaFx, Backend in Sql Server

# SKILLS

Python, Java, C, C++, Flask, Scrapy, Docker, GitHub, DVC, Statistical analysis, NLP, Data Mining, Machine Learning