

# Syed Muhammad Murtaza Ali Zaidi

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## SKILLS

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- Programming Languages: Python, SQL, NoSQL, C++, JavaScript, HTML, CSS
- Conceptual Skills: Object Oriented Programming (OOP), Deep Learning, Databases, R-DBMS, Natural Language Processing (NLP), Large Language Models\* (LLM), Image Processing, Exploratory Data Analysis (EDA), Git, Linux, REST APIs, Statistics
- Frameworks and Libraries: Pytorch, Django, Tensorflow, Sklearn, Numpy, Pandas, Matplotlib, OpenCV, Docker, Apache Spark

## EXPERIENCE

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### Bitswits (Pvt.) Ltd.

Jun 2023 - Sep 2023

Python Django Developer

Karachi, Pakistan

- Led a team of Python developers, improving project efficiency by 45% with best practices and collaboration.
- Introduced new features in the team such as docker, which boosted the code reliability by 70%
- Collaborated with stakeholders and managers on project needs, boosted communication skills by 45%.
- Initiated 'pull request' schema in my team to enhance codebase efficiency by 90%.
- Provided technical guidance, conducted code reviews, and resolved challenges to ensure high-quality code. Mentored junior developers and improved their skills by 55%.

### Smart Box

Jun 2022 - Jun 2023

Python Developer

Karachi, Pakistan

- Engineered a robust and highly scalable back-end architecture using Python and Django REST framework for 'Udhaar Book', outperforming 80% of business apps in Pakistan.
- Collaborated with Data Scientists to perform data analysis and implemented three NLP-based security layers in the Know Your Customer section of transactional features, resulting in a 70% reduction in fraudulent users.
- Improved functionality with new features: Wallet, Loan Architecture, Marketplace, and User Verification; resulting in a 75% increase in user count.
- Introduced best practices for Python, leading to 25% reduction in bugs and enhancing overall code reliability.
- Improved user experience by implementing asynchronous calls using celery, resulting in a 50% reduction in loading times and enhancing app responsiveness.

### Saltec Smart Power

Jan 2022 - May 2022

Artificial Intelligence Trainee

Karachi, Pakistan

- Built a desktop application using Sklearn (Linear Regression, Random Forest) and Tkinter to predict generator fuel consumption. This resulted in a 35% cost saving for the company.
- Used device data to optimize hardware performance and implemented preventive measures.
- Developed machine learning models to detect fuel theft and unusual battery consumption. Forecasted monthly power consumption using time series model. Automated 15% of staff using Python, Anaconda, SQL, and Excel.

### Xolva (Pvt.) Ltd.

Jun 2021 - Jan 2022

Trainee Software Engineer

Karachi, Pakistan

- Leveraged expertise in Python-Django, RDBMS, Data Analysis, and Git to design and implement new modules for a Journals Management System (JMS).
- Integrated new modules seamlessly into the existing system, ensuring smooth functionality.
- Utilized SQL proficiency to optimize database queries, improving system performance by 30%.

### The Sparks Foundation

Jul 2021 - Aug 2021

Data Science and Business Analytics Intern

Karachi, Pakistan

- Obtained practical expertise in Machine Learning and Data Analysis through hands-on projects.
- Created engaging instructional videos to educate peers on data science concepts.

### Xolva (Pvt.) Ltd.

Oct 2020 - Nov 2022

Data Science Intern

Karachi, Pakistan

- Conducted exploratory data analysis (EDA) to understand data distributions and identify patterns.
- Learned the best coding practices and improved my skills by 50%.

## EDUCATION

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### University of Potsdam

Masters of Data Science

Oct 2023 - Oct 2025

Potsdam, Germany

### NED University of Engineering and Technology

Bachelors of Computer Systems

Oct 2017 - Oct 2021

Karachi, Pakistan

## CERTIFICATIONS

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- Deep Learning with Tensorflow 2: ([365 Data Science](#))
- Statistics for Data Science: ([Great Learning](#))
- Machine Learning A-Z: AI, Python & R: ([Udemy](#))
- Deep Learning Essentials: ([10 pearls university](#))
- Data Science Toolbox Part 1: ([Datacamp](#))
- Data Science Toolbox Part 2: ([Datacamp](#))

## ACHIEVEMENTS

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### Third Position in Bachelors

NED University of Engineering and Technology

Achieved the third position in the 'Computer Systems' department with an outstanding CGPA of 3.633 out of 4.0.

### Runner Up in IEEE-YESIST 12 competition

IEEE

Secured the second prize for my team's final year project, 'Dental Cavity Detection', in a highly competitive competition that featured over 100 projects from 23 countries, including Japan, India, Bangladesh, and several others.

### IGNITE NGIRI Project Funding

IGNITE

My team's Final Year Project (FYP) 'Dental Cavity Detection System' was chosen as one of the two selected projects to receive IGNITE FYP Funding, recognizing its exceptional innovation and potential impact.

## INTERPERSONAL SKILLS

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- Leadership
- Teamwork
- Communication
- Motivation
- Responsibility

## LANGUAGES

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- Language: English, Proficiency: C1
- Language: German, Proficiency: A1
- Language: Urdu, Proficiency: C2

## VOLUNTEERING

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### Jinnah Post Graduate Medical Centre

Healthcare Volunteer

Feb 2020 - Mar 2020

Karachi, Pakistan

- Assisted in arranging World Kidney Day's checkup panels.
- Conducted routine feedbacks from patients' attendants and conveyed complaints to the authorities.
- Department wise evaluated behaviors of workers with patients and their attendants.

## HOBBIES

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- Sports
- Travelling
- Movies
- Mathematics