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# Hamza Mustafa

## Data Scientist

Portfolio: [hamxam.com](https://hamxam.com)  
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As a data scientist with expertise in Machine Learning and Deep Learning, I am passionate about leveraging data to drive insights and solve complex problems. With a strong background in computer science, statistics, and data analysis, I have spent years developing my skills in these cutting-edge technologies.

### SKILLS

<b>Tools and Languages</b>	C/C++, Python, Git, $\LaTeX$ , Markdown
<b>Quantitative Research</b>	Model optimization, Model Modeling, Deep Learning, Machine Learning, Data Science
<b>Modules Packages</b>	Pandas, Numpy, Tensorflow, Keras, Scikit-learn, Matplotlib, Seaborn, NLTK, Gensim, Pattern

### TECHNICAL EXPERIENCE

**Visiting Lab Instructor (Artificial Intelligence / Data Mining)** Jan 2024 — Present  
*National University of Computer and Emerging Science* Lahore

- Evaluating students' performance and providing constructive manual on the lab execution.
- Reviewing and finding ways to improve the learning environment.
- Reviewing the effectiveness of various learning strategies.

**Graduate Researcher** June 2022 — Present  
*National University of Computer and Emerging Science* Lahore

- Developed a research strategy to address a complex research problem and identified possible solutions
- Drafted research papers for publication in peer-reviewed journals and presented research findings at international conferences
- Conducted a literature review to identify the latest research in a field of study, allowing for more informed decision making on the research project

#### Cancer Detection by Deep Learning ( MS-Thesis)

- Developed a research strategy to address a complex research problem and identified possible solutions
- Drafted research papers for publication in peer-reviewed journals and presented research findings at international conferences
- Conducted a literature review to identify the latest research in a field of study, allowing for more informed decision making on the research project

**Freelance Data Scientist** June 2021 — Present

- **Deep Learning**, Object Detection, Recognition, Segmentation, Anomaly Detection and Classification
- **Machine Learning**, Prediction, Extraction, Regression, Recommendation and Classification
- **Data Science**, Data Analysis, Data Exploration, Data Transformation and Modeling
- **NLP**, Sentiment Analysis, Information Extraction, Summarization, word embedding
- **Big Data**, Segmentation and Prediction, Churn Prediction, Operational Analysis, Sentimental Analysis , Recommender Systems

### EDUCATION

**Master of Sciences in Data Science**, National University of Computer and Emerging Science, Lahore Campus 2021 — 2023  
**Bachelor of Computer Science**, The University of Lahore 2016 — 2020

### PROJECTS

Facial Emotion Detection  
Attendance using Face Recognition  
Face Mask Detection  
Social Distancing Dashboard  
**More Projects at [Github](https://github.com).**

### PUBLICATION

Automatic Invasive Ductal Carcinoma Detection Using Convolutional Neural Networks *International Conference on Computing Emerging Technologies (ICCET)*, May, 2023.  
Cyberbullying Detection for Urdu Language Using Machine Learning *Forthcoming Networks and Sustainability in the AIoT Era: Second International Conference FoNeS-AIoT*, January, 2024.