**Asma Fatima**

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**SUMMARY**

*Aspiring Data Scientist currently in the 6th semester of BS Data Science at FAST NUCES, with a strong foundation in machine learning, data analysis, deep learning, and AI-powered systems. Experienced in Python, SQL, and deep learning tools, with hands-on projects in image captioning, text-to-image generation, and language translation. Skilled in model fine-tuning and eager to apply analytical and technical expertise to solve real-world problems and drive data-informed decisions.*

**EDUCATION**

**Fast NUCES *July 2022 - June 2026***

*BS Data Science*

*GPA***:** *3.25*

*Relevant Courses***:** *Big Data Analytics, Natural Language Processing (NLP), Data Mining, Data Visualization, Artificial Intelligence, Advanced Statistics, Linear Algebra, Discrete Structures, Database Systems, Data Structures, Object-Oriented Programming, Software Engineering Fundamentals, Programming Fundamentals*

**Musab School System *July 2020-May 2022***

*A’levels in Computer Science*

**ACADEMIC PROJECTS**

**DescriptoImage: AI-powered Text-to-Image Translation** *Multimodal Deep Learning (Python, GANs,Stale Diffusion)* ***Ongoing***

-Developed a model that generates high-quality images from textual descriptions using Generative Adversarial Networks (GANs).

-Leveraged deep learning to translate text inputs into accurate visual representations. **VisionCaption: AI-powered Image Captioning System** *Deep Learning-based Captioning System (Python, CNN, LSTM, Word2Vec)* ***Ongoing***  *-*Developed a model to generate image captions using CNNs for feature extraction and LSTMs for sequence generation. -Incorporated Word2Vec for word embeddings to enhance caption accuracy and contextual relevance. **LinguaTrans: English-to-Urdu Language Generator** *Machine Translation System (Python, Seq2Seq Models)*  ***April 2025*** *-*Developed an English-to-Urdu translation system using sequence-to-sequence models. -Integrated deep learning techniques to enhance translation accuracy and fluency. **Sentiment Analysis System** *Opinion Mining using Python and NLP* ***January 2024*** *-*Built a sentiment analysis model to classify text data into positive, negative, or neutral sentiments. -Utilized Natural Language Processing techniques and visualized sentiment trends using Power BI for better insight extraction. **Blood Bank Management System** *Database and Management Platform (C#, HTML, CSS)* ***May 2024***-Developed a full-stack system to manage blood donors, recipients, and blood inventory. -Integrated frontend (HTML/CSS) with backend logic in C for efficient data handling and user interaction. **Inventory Management System** *Inventory & Billing System (C++)*  ***March 2023***-Designed an OOP-based system to manage inventory, billing, and stock updates. -Automated routine tasks to streamline inventory tracking and enhance business operations. **Tic Tac Toe** *Game Development in Assembly Language*  ***September 2023***-Developed a classic Tic Tac Toe game using Assembly language. -Enhanced understanding of low-level logic and memory management in Assembly. **Chess** *Classic Chess Game (C++)* ***September 2022***-Designed and implemented a functional chess game in C++. -Strengthened fundamentals of game logic and algorithm design.

**CERTIFICATES**

**-Data Visualization Competition** – SOFTEC, FAST (2025)

*Participated in a national-level Data Visualization competition,*

*using Tableau and Power BI to analyze and visualize cleaned datasets.*

**-Query Master Competition** – SOFTEC, FAST (2024) *Participation in national-level database query challenge.*

**-Python 101 for Data Science** – Coursera, IBM (2024)  
 *Covered Python basics, data handling, and visualization.*

**-Web Scraping with Python** – Coursera (2024) *Hands-on training in extracting data using Python tools.*

**Skills**

**Technical Skills**:

- **Programming Languages:** Python, C++, C#, Assembly, HTML, CSS,SQL

- **Data Science & Analytics:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn,PyTorch, TensorFlow, Power BI

- **Machine Learning & AI:** Regression, Classification, NLP, Deep Learning, Transformers, Attention Mechanism

- **Web & APIs:** BeautifulSoup, Requests

- **Databases:** SQL, MySQL

- **Tools & Platforms:** GitHub, Jupyter Notebook, VS Code, Google Colab

- **Design & Prototyping:** Figma, Canva

**Non-Technical Skills:**

- Problem Solving

- Critical Thinking

- Communication

- Leadership & Teamwork

- Project Management

- Time Management

- Adaptability

- Attention to Detail

- Research & Analytical Skills