

Mirza Shahbaz Ali Baig

Phone: 0301-4863718 | Email: mirzashahbazbaig724@gmail.com | LinkedIn: www.linkedin.com/in/mirza-shahbaz-ali-baig-3391b3248

Skills

- **ML Model Development** : Python, Scikit-Learn , Pytorch , Tensorflow
 - **Data Preprocessing** : Pandas , Numpy
 - **Data Visualization** : Matplotlib , Seaborn
 - **Back End Development**: Flask , SQLite-3
 - **Front End Development** : HTML, CSS
 - **Web Scraping** : BeautifulSoup
 - **Soft Skills**: Bias for Action, Deliver Results , Problem Solving
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Experience

- Work extensively on Data Pre-Processing and Feature Engineering for Machine Learning Model development.
 - Master advance techniques like One Hot Encoding , KNN imputation , Scikit Learn pipelines , Yeo-Johnson transformer , Power transformer , Column Transformer etc.
 - Built Book Recommender and Movie Recommender system using NLP techniques like cosine Similarity and Vectorization
 - Master the Mathematics behind the deep neural networks and concepts like Forward Propagation , Backward propagation , Gradient Descent , Activation Functions etc.
 - Work on Machine Learning Algorithms like Gradient Boosting , Decision Tree Classifier , Logistic Regression , Linear Regression etc.
 - Hands on experience in Keras and Tensorflow building Fully connected Neural Networks , Convolutional Neural Network (CNN) , Autoencoders on famous MNIST dataset.
 - Agentic AI Development
 - Retrieval Augmented Generation (RAG)
 - Working on Computer Vision for object Detection and captioning of images.
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Education

Punjab University College of Information and Technology

B.S Computer Science

2024 - 2028

GPA: 3.94/4.0

Government Graduate College Civil lines Sheikhpura

Intermediate (Pre-Engineering)

Grade : A+

Coursework

- Data Structures and Algorithms
 - Probability & Statistics
 - Applied Statistics
 - Linear Algebra
 - Differential Equations
 - Programming Fundamentals
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Interests

- Comparative Religions
- Philosophy
- History
- Book Reading
- Data Science
- Neural Networks
- Intelligent Systems
- Computer Vision