







Hoshi Hamza

I am a senior at Lahore University of Management Sciences, majoring in Computer Science. My primary interest lies in solving real world problems using Machine Learning, Deep Learning and Data Science Techniques.

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Education

Sept 2017 – Present **BS Computer Science – CGPA: 2.92**
Lahore University of Management Sciences – Lahore, Pakistan

- **Relevant Courses Taken:** Data Structures, Algorithms, Machine Learning, Database, Artificial Intelligence, Speech Processing, Data Science, Data Mining, Computer Vision Fundamentals, Advanced Programming

Projects

Aug 2020 – Present **Hajj Crowd Monitoring and Control from Video data**

- Performed Crowd Counting and Crowd Flow analysis on CCTV footage from Hajj using open source Deep Learning algorithms.
- Purpose of this project is to detect congestion and prevent catastrophic events using Machine Learning Models in Python.

Oct 2020 – Dec 2020 **Speaker and Gender Recognition:**

- Feature extraction from speech dataset.
- Performed Multinomial Logistic Regression on extracted features from scratch.
- Used Scikit-learn libraries in Python to train different classifiers and compared their evaluation metrics.

Oct 2020 – Dec 2020 **SMS Spam Detection**

- Processed and cleaned the dataset downloaded from Kaggle.
- Performed Exploratory Data Analysis on the Dataset.
- Trained multiple Machine Learning Models to detect Spam SMS using Scikit-Learn libraries in Python.
- Created a comprehensive blogpost to present the project.

Mar 2020 – May 2020 **Predicting Gender Using Survey Responses**

- Survey conducted to understand how comfortable men and women are in using technology for Financial Transactions.
- Cleaned and Pre-processed data and performed Exploratory Data Analysis.
- Used multiple Clustering techniques in Python to predict Gender using the extracted features.

Technical Skills

- **Languages** Python, C++, JavaScript (NodeJS), Dart, HTML5, CSS3
- **Frameworks & Libraries** Pandas, Numpy, Keras, Tensorflow, Scipy, OpenCV, SciKit Learn, Flutter, React
- **Databases** Firestore, MySQL
- **Hosting Services** Firebase, Heroku, Netlify
- **Miscellaneous** Git, Trello, Slack, Android Studio, Jupyter Notebooks, Stata, Matlab