Ahmed Ali Khan

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Education

NED University of Engineering and Technology — Oct. 2022 – Aug 2026
Bachelor of Science in Computer Science (specialization in data science) — Karachi, Sindh
CGPA : 3.884

Relevant Coursework

- Machine Learning
- Algorithms Analysis
- Artificial Intelligence
- Software Engineering
- Data Mining
- Database Management
- Platform and Architecture for data science
- Computer Architecture

Pro jects

Face Classifier Web App | Python, OpenCV, MTCNN, SVC (Support Vector Classifier), Streamlit. — August 2024

- Classified faces of six famous cricket players using MTCNN for face detection and wavelet transformation for feature
- extraction.
- Trained an SVC model with image augmentation, achieving 89% accuracy after hyperparameter tuning with Grid Search CV.
- Evaluated multiple models, with SVC outperforming logistic regression and random forest.
  Deployed a Streamlit-based web application for face classification, hosted on Streamlit Cloud Community.

House Price Predictor Web App | Python (XGBoost, Scikit-learn), Streamlit, and Kaggle datasets. — August 2024

- Built a House Price Predictor using XGBoost, fine-tuned with GridSearchCV, achieving R^2 scores of 98% (sales) and 89%
- (rentals).
- Enhanced data accuracy with preprocessing techniques like Mahalanobis distance and utilized Kaggle datasets for training.
- Evaluated multiple models, with XGBoost outperforming others for robust real estate price predictions.
  Deployed a user-friendly Streamlit-based website, hosted on Streamlit Community Cloud, for property value estimation in Pakistan.

Loan Default Classifier Web App| Python (Pandas, NumPy, Scikit-learn), Streamlit. — August 2024

- Performed in-depth exploratory data analysis (EDA) on a Kaggle loan default dataset, uncovering key insights.
- Cleaned and preprocessed the data, ensuring readiness for accurate model training.
- Selected and trained a Decision Tree model, achieving 99% accuracy in predicting loan defaults.
  Developed and deployed a user-friendly Streamlit-based web application to explore predictions.

Crimes Data Analysis | Python (Pandas, Matplotlib, Seaborn, Scikit-learn), jupyter notebook. — January 2024

- Conducted comprehensive exploratory data analysis on California crime data using Pandas. Cleaned and preprocessed large
- datasets to ensure data quality and consistency. Utilized descriptive statistics and data visualization techniques to identify
- crime trends and patterns. Implemented advanced data wrangling methods to handle missing values and outliers. Created
- insightful visualizations using Matplotlib and Seaborn to present key findings. Collaborated with cross-functional teams to interpret analysis results and inform decision-making. Presented the analysis results through a professional video presentation

Technical Skills : Jupyter Notebook, Google Colab

Languages: Python , C/C++

Developer Tools: Jupyter, Github

Technologies/Frameworks: Pandas, NumPy, Scikit-learn, TensorFlow, Streamlit