

M. Alyan Haider

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Personal Statement

Computer Science undergraduate passionate about machine learning and data-driven systems. Experienced in applying AI techniques to solve real-world problems across health, finance, and smart environments.

Education

B.Sc. Computer Science

Nov 2021 – Jul 2025

Namal University — Mianwali, Pakistan

Relevant Coursework: Artificial Intelligence, Machine Learning, Digital Image Processing, Data Analysis and Visualization, Information Security

Technical Skills

- **Languages:** Python, C++, SQL, JavaScript
- **Libraries/Frameworks:** scikit-learn, PyTorch, TensorFlow, Pandas, NumPy
- **Tools:** Git, VS Code, Jupyter, PostgreSQL
- **Other:** Data Preprocessing, Model Training, Hyperparameter Tuning, Visualization

Personal Projects

Revenue Forecasting for Nayatel: Subscription Churn Analysis

FYP 2025

Python, Machine Learning, Dashboarding, Forecasting

- Built an ML-based system to forecast revenue fluctuations and predict churn for Nayatel using synthetic telecom data.
- Developed a dashboard displaying churn metrics, revenue trends, and actionable KPIs to support strategic decisions.

Smart Healthcare Recommender System Using SIoT + GWO

Spring 2025

Python, GWO, Hybrid Recommender Systems

- Built a hybrid recommender system using SIoT data and GWO for feature selection.
- Combined CF, content-based filtering, and social graph data for accurate suggestions.

Bitcoin Price Prediction Using Real-Time Data

Fall 2024

Python, LSTM, Data Visualization

- Developed an LSTM-based model to forecast Bitcoin prices using API-sourced data.
- Engineered features and visualized trends for predictive insights.

Text Summarization using Firefly Algorithm

2024

Python, NLP, Metaheuristics

- Designed an unsupervised text summarizer using Firefly Algorithm.
- Evaluated summaries for relevance using the DUC2003 benchmark.

Chest X-Ray Image Classification (COVID-19)

Spring 2023

Python, CNN, Deep Learning

- Built and trained a CNN to detect pneumonia and COVID-19 from X-rays.
- Focused on model generalization and metric-based evaluation.

Data Generation and Classification of Urdu Text

Spring 2024

Python, OCR, Data Augmentation

- Automated Urdu text image generation and applied data augmentations.
- Proposed and tested improvements to OCR methods on noisy data.