

# HASSAN ALI

Data Scientist · Machine Learning Engineer · Python & NLP Specialist

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## PROFESSIONAL SUMMARY

Aspiring Data Scientist and ML Engineer with hands-on experience building and deploying end-to-end ML applications. Completed a Data Science internship at ARCH Technologies applying real-world ML workflows. Developed 3 production-ready projects spanning classification, NLP, and job recommendation — all deployed as interactive web applications using Flask and Streamlit.

## EXPERIENCE

### Data Science Intern – ARCH Technologies

Feb 2025 – Mar 2025

- Applied ML techniques on real-world datasets; performed preprocessing, feature engineering, and model building
- Built and evaluated classification and regression models; gained hands-on experience with full ML pipelines

### Kaggle Notebook Expert

2025

- Achieved Kaggle Notebook Expert tier by publishing high-quality public notebooks on ML and data science topics
- Notebooks recognized by the Kaggle community through upvotes and medals, demonstrating ability to communicate technical work clearly

## PROJECTS

### RESUME JOB RECOMMENDER

Mar 2025

*Python · NLP · TF-IDF · Streamlit · Kaggle Dataset*

- Built intelligent resume-based job recommendation system using TF-IDF vectorization and NLP
- Trained and validated model on Kaggle job postings dataset; deployed as real-time Streamlit app
- [github.com/hassan-ali786/resume-job-recommender](https://github.com/hassan-ali786/resume-job-recommender)

### DIABETES PREDICTION SYSTEM

Jan 2025

*Python · Scikit-learn · Streamlit · Pandas*

- Developed binary classification model to predict diabetes risk from patient health data
- Performed EDA, feature selection, and model evaluation; deployed as Streamlit web application
- [github.com/hassan-ali786/Diabetes-Prediction-Webapp](https://github.com/hassan-ali786/Diabetes-Prediction-Webapp)

### LOAN APPROVAL PREDICTION SYSTEM

Dec 2024

*Python · Scikit-learn · Flask · Pandas*

- Built ML classification model to automate loan approval decisions with feature engineering
- Compared multiple classifiers and deployed web-based prediction interface for real-time use
- [github.com/hassan-ali786/Loan-Approval-System](https://github.com/hassan-ali786/Loan-Approval-System)

## EDUCATION

### Shah Abdul Latif University

Associate Degree in Science (ADS)

Intermediate – Pre-Engineering

Khairpur, Pakistan

Currently Pursuing

Completed: 2024

## CERTIFICATIONS

### Data Analytics Certificate

HP

### Prompt Engineering – Art of Prompting

Coursera

### Intro to Python

Kaggle

## TECHNICAL SKILLS

**Programming** Python

**ML & Modeling** Classification · Regression · Feature Engineering · Model Evaluation · EDA

**NLP** TF-IDF Vectorization · Text Preprocessing · Similarity Matching

**Libraries** Pandas · NumPy · Scikit-learn · Matplotlib · Seaborn

**Deployment** Flask · Streamlit

**Tools** Jupyter Notebook · Google Colab · GitHub · VS Code · Kaggle

**Database** MySQL (Basic)