

M. Saad Khan

Muslimabad, Gujrat, Pakistan

+92-312-8988070

msaadkhan985@gmail.com

[linkedin.com/in/saad985](https://www.linkedin.com/in/saad985)

github.com/saadk985

Summary

I have a passion for fast-paced, growth rate environment. Drawing from experience in various courses, projects and my own critical approach towards everything. This enables me to identify problems, and work with others to devise effective strategies in the critical situation of diversified projects.

Experience

University of Gujrat

Bachelor of Science in Biotechnology

Nov. 2021 – May. 2025

Gujrat, Pakistan

Relevant Coursework

- Field Data Analysis
- Statistics
- Linux Basics
- Programming
- Project Management

Projects

Recipe Recommender System

- Built a machine learning-based recipe recommender system using user preferences, ingredient embeddings, and cosine similarity.
- Processed and cleaned a diverse recipe dataset, engineering features to capture flavor profiles and dietary patterns.

Predicting the Wine Quality

- Developed a machine learning model to predict wine quality using chemical properties.
- Performed thorough EDA and feature engineering to uncover hidden patterns and boost model performance.
- Deployed models using scikit-learn and streamlined the workflow in Jupyter Notebook, showcasing practical data science skills.

Genetic Algorithm Implementation

- Designed and implemented a robust Genetic Algorithm from to solve complex optimization problems, demonstrating strong algorithmic thinking.
- Tuned selection, crossover, and mutation strategies to enhance performance.
- Visualized evolution across generations to interpret solution space dynamics, highlighting practical applications in machine learning and bioinformatics.

Callus Formation & DNA Extraction

- Induced callus formation from plant explants under controlled tissue culture conditions.
- Extracted high-quality genomic DNA for downstream molecular analysis using standard protocols.

Technical Skills

Management: Jira, Asana, Slack.

P. Language: Python, R, Bash

Technologies: Linux, GitHub.

Biotech Skills: PCR, DNA Extraction, Quality Control.

Leadership / Extra-curricular

SciBiz (2024)

Founder / Former Vice-President

- Society with an aim to promote inter-disciplinarity with in the university's premises.

Kaar-e-Kamal (2024)

Managing Director

- An NGO that is striving to alleviate poverty in Pakistan.