SUBHAN LIAQAT

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ACHIEVEMENTS

- First Place Winner 🥇 in Benin Multimodal AI Hackathon (€3000 Award) — May 2024
- Got Featured on the University's Club page for being selected as a Section Leader in Stanford University's Code In Place Program among 30,000+ applicants — Jun 2024
- Harvard CS50x Puzzle Day Winner (Scored 9/9) — Apr 2024
- Top 6.9% of LeetCoders — Mar 2024
- Awarded with 120% Scholarship in Undergraduate — 2021 - 25
- Recipient of Solar Panel System by CM Pakistan (School Topper) — 2016 - 18

EDUCATION

Government College University Faisalabad — 2021 - 25
BS Data Science — CGPA: 3.38/4.00

SKILLS

- **Languages**: Python, R, SQL, C/C++
- **Frameworks**: FastAPI, Flask, LangChain, Streamlit, Gradio
- **Libraries**: NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-Learn, Tensorflow, Keras
- **Version Control**: Git, GitHub, GitLab
- **Operating Systems**: Windows, Linux, Ubuntu
- **IDEs**: Jupyter Notebook, PyCharm, RStudio, Visual Studio Code
- **Tools**: Airflow, Snowflake, Power BI, Docker, Kubernetes, Postman, Latex
- **AWS**: S3, RDS, Glue, CloudWatch, Redshift, IAM, Quicksight
- **Databases**: MySQL, Oracle, PostgreSQL, SQLite

WORK EXPERIENCE

NETSOL Technologies Limited (NASDAQ: NTWK) — Calabasas, CA
Data Science Intern — Aug 2023 - Nov 2023
- Led end-to-end data solutions with Python, FastAPI, and PostgreSQL, optimizing data retrieval and storage.
- Streamlined ETL processes and data warehousing with AWS services (IAM, S3, Glue, Athena, Redshift).
- Leveraged Data Science libraries for actionable insights, achieving 91% accuracy in Google Stock Price Prediction with ARIMA Model.

TEACHING EXPERIENCE

iCodeGuru — Santa Clara, CA
Moderator — Apr 2024 - Present
- Moderating the Data Structure and Algorithms session at iCodeGuru, a community of 20,000+ underprivileged students.

Stanford University — Stanford, CA
Section Leader @CodeInPlace — Apr 2024 - Jun 2024
- Instructing virtual live classes for a cohort of 10-15 students, delivering comprehensive lessons for CS106A Introductory Python Programming.
- Conducting weekly sessions to support students in their learning journey, addressing questions, and providing guidance on Python coding concepts.

INTERNATIONAL HACKATHONS

Benin Multimodal AI Hackathon [SUBMISSION | PROJECT | CERTIFICATE]
Artificial Intelligence Engineer — May 2024
- Built an incredible product, "Ben Interactive Video" which enables users to interact with videos in their preferred language, ask questions, and even get subtitles and dubbing!
- Tools & Technologies we used are not limited to Streamlit, OpenAI, Google Cloud API, and Vectara.

Unhallucinate Challenge: 24 Hours Fight [[SUBMISSION](#) | [PROJECT](#) | [CERTIFICATE](#)]
Backend Developer   Feb 2024
- Led the team in building the HHEM Victorious Medical Data Query Analyzer.
- Leveraged AI to enhance medical data accuracy and patient care safety.
- Demonstrated problem-solving skills and technical expertise in a high-pressure environment.

PROJECTS

Heart Disease Detection Using Machine Learning [[CODE](#)]
- Utilized a dataset of 276 instances and 14 attributes to predict heart disease occurrence.
- Employed Random Forest and Decision Tree algorithms, resulting in a 97% accuracy score.
- Evaluated the performance of each algorithm using metrics such as precision, recall, F1-score, and accuracy.
- Implemented Python's Scikit-Learn library and Seaborn for data visualization.

Time Series Forecasting using FBProphet [[CODE](#)]
- Built a time series forecasting model using FbProphet for airline passenger data.
- Ensured data integrity and consistency through thorough cleaning and preprocessing.
- Trained the model on historical data for precise projections.
- Conducted cross-validation to evaluate performance across various time periods.
- Effectively communicated insights through data visualizations and performance metrics

Google Stock Price Prediction using Machine Learning [[CODE](#)]
- Leveraged time-series analysis techniques and achieved 91% accuracy in forecasting stock prices.
- Applied Python programming and data visualization libraries for data analysis and model evaluation.

CERTIFICATIONS

- [Advanced Neural Networks](#) | DeepLearning.AI   Jun 2024
- [Machine Learning Specialization](#) | Stanford University   Jul 2024
- [SQL for Data Science](#) | University of California, Davis   Jun 2023
- [Excel for Data Analysis](#) | IBM   Mar 2023
- [Statistics for Data Science](#) | Stanford University   Feb 2023

RELEVANT COURSEWORK

Machine Learning	Artificial Intelligence	Big Data Analytics
Data Visualization	Data Mining	Data Warehousing
Business Intelligence	Inferential Statistics	Regression Analysis
Probability Distributions	Probability & Statistics	Information Security
Software Engineering	Parallel & Distributed Computing	Computer Networks
Digital Logic Design	Operating Systems	Computer Organization
Assembly Language	Design & Analysis of Algorithms	Database Systems
Data Structures & Algorithms	Object Oriented Programming	Differential Equations
Discrete Mathematics	Linear Algebra	Calculus & Analytical Geometry

LEADERSHIP ROLES

Google Developers Student Club, GCUF Chapter   Faisalabad, PK
Campus Co-Lead   2023 - 24
- Led a team of over 10 people, and successfully organized multiple events, webinars, and workshops with over 300 participants.

IEEE Computer Society, GCUF Chapter   Faisalabad, PK
Management Lead   2021 - 22
- Managed a team of over 20 people, and successfully organized multiple events, webinars, and workshops with over 300 participants.