

Muhammad Sarib Khan

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PROFESSIONAL SUMMARY

Applied AI enthusiast with a Master's in Computer Engineering (graduating July 2025), specializing in NLP, LLMs, and machine learning. Experienced in building end-to-end prototypes for data analysis, recommendation systems, and dashboards using Python, BERT, spaCy, OpenAI, and Power BI. Also skilled in full-stack development through projects using React, Node.js, and Django.

EDUCATION

Politecnico Di Torino

Master of Science in Computer Engineering

Torino, Italy

Sept. 2021 – July 2025 (Expected Graduation)

National University of Sciences and Technology

Bachelor of Science in Electrical Engineering

Islamabad, Pakistan

Sept. 2015 – July 2019

EXPERIENCE

Data Analyst

Stellantis

Nov. 2023 – May 2024 (6-month Internship)

Torino, Italy

- Developed a PoC for capacity constraint analysis using Python and pandas
- Built LLM-based prototypes (spaCy, BERT) to match orders and suggest alternatives
- Improved forecast accuracy via matching module for predicted vs. actual orders
- Designed Power BI dashboards for visualization of constrained parts
- Analyzed live production data and validated structures using DB Browser

Executive Engineer

ABB Switzerland Limited

Dec. 2020 – July 2021

Manama, Bahrain

- Managed client communications and supervised engineers/technicians across two major projects
- Produced monthly technical reports and analytics dashboards
- Acted as liaison between field teams and corporate/HR for operational coordination

Junior Business Development Executive

Descon Power Solutions

Dec. 2019 – Mar. 2020

Lahore, Pakistan

- Researched upcoming renewable energy projects to identify potential leads
- Applied data-informed strategies to analyze prospects
- Contributed to technical tender documentation and client pitch presentations

THESIS

Master's Thesis – Personalized Health Recommendations Using LLMs

Mar. 2025 – Jul. 2025

- Using LLaMA, PMD-LLaMA prompt engineering, and Fitbit API to generate contextual health advice
- Fine-tuning open-source LLMs with LoRA for medical NLP in a privacy-sensitive setup
- Project is maintained in a private repository

PROJECTS

Real-Time Anomaly Segmentation | Python, PyTorch, BiSeNet, ERFNeT

Jul. 2024 – Sept. 2024

- PyTorch, ERFNet for OOD pixel detection
- Details: github.com/Busso00/AML

Quarto - Board Game | Python, NumPy, Jupyter Notebook, Pickle, Git

Aug. 2023

- Built intelligent agents for the Quarto board game using Q-learning and Genetic Algorithms
- Details: github.com/yurnero14/Quarto

Gender Detection | Python, PCA, GMM, Logistic Regression, SVM

July 2023

- Built gender classifiers using low-dimensional image embeddings and classical ML

<ul style="list-style-type: none"> Details: github.com/yurnero14/GenderDetection 	
Book Recommender using LLM <i>Python, pandas, seaborn, Langchain, Gradio</i> <ul style="list-style-type: none"> Details: https://github.com/yurnero14/Book-Recommender 	April 2025
Flutter Dice Roller App <i>Flutter, Dart</i> <ul style="list-style-type: none"> Basic dice roller mobile app built to learn stateful widget management and UI design in Flutter Details: github.com/yurnero14/Flutter-Dice-Roller-App 	Aug. 2024
Hike Tracker App <i>React, Django, SQLite3, YouTrack</i> <ul style="list-style-type: none"> React and Django full-stack app for route tracking (Scrum-based project) Details: github.com/yurnero14/Hike-Tracking 	Oct. 2022 – Jan. 2023
Categories Game <i>Node.js, Express, React, SQLite</i> <ul style="list-style-type: none"> Full-stack SPA using Node.js, Express, React Details: github.com/yurnero14/Categories 	Sept. 2022
EzWarehouse <i>Node.js, Express, SQLite3, UML, Mocha</i> <ul style="list-style-type: none"> Modular inventory backend with MVC, Mocha tests Details: github.com/yurnero14/EzWarehouse 	Mar. 2022 – June 2022
Habit Tracker Web App (Work in Progress) <i>React, Node.js, Express, MongoDB, JWT, bcrypt</i> <ul style="list-style-type: none"> Developing a full-stack productivity application with secure login and personalized habit tracking Details: github.com/yurnero14/Habit-tracker-ai 	April 2025
Instagram Clone (Work in Progress) <i>React, Chakra UI, (Firebase planned)</i> <ul style="list-style-type: none"> Designed auth and home UI for an Instagram-like app Details: github.com/yurnero14/Instagram-Clone 	Nov. 2024

SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: React.js, Node.js, Django, Express, Hadoop, Spark, REST APIs, Mocha, Flutter (basic), Chakra UI

AI/ML: spaCy, BERT, Scikit-learn, PyTorch (intro), Q-Learning, Genetic Algorithms, PCA, GMM, SVM, Logistic Regression

Developer Tools: Git, GitHub, Google Colab, VS Code, Jupyter, Postman, LaTeX, DB Browser, PyCharm, Eclipse, Docker, Databricks

Data Analysis & Visualization: pandas, NumPy, SciPy, Matplotlib, Power BI, Microsoft Excel

Cloud & Services: Firebase Auth, Firebase Firestore, Fitbit API (via thesis)

Other: Prompt Engineering, LLM Evaluation (thesis), Agile/Scrum, UML Diagrams

Spoken Languages: English (C2), Italian (A2)

CERTIFICATIONS

- **Flutter & Dart – The Complete Guide [2025 Edition]** – In Progress
- **The Complete Full-Stack Web Development Bootcamp** – In Progress