

# MOHAMMED SHA HUSSAIN KHAN

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## PROFESSIONAL SUMMARY

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Motivated and detail-oriented postgraduate in Data Science with hands-on experience in data analysis, visualization, and machine learning. Proficient in Python, SQL, Power BI, and Tableau, with a strong foundation in transforming complex data into meaningful insights. Demonstrated ability to build dashboards, recommendation systems, and predictive models. Eager to grow professionally, continuously develop new skills, and contribute to data-driven decision-making in dynamic environments. Passionate about solving real-world problems using data.

## EDUCATION

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**KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION**, M.Sc in Data Science June 2023 – May 2025

- GPA: 7.63/10

**MANNAR THIRUMALAI NAICKER COLLEGE**, Bachelor of Computer Applications Jun 2020 – May 2023

- GPA: 7.14/10

## EXPERIENCE

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**Data Visualization Virtual Internship**, Tata Consultancy Services (TCS) via Forage APRIL 2025 – MAY 2025  
– Remote

### Business Simulation Project

- Created executive-level dashboards to support decision-making.
- Applied data cleaning, storytelling, and visualization principles to mock business scenarios.
- **Tools used:** Power BI, Excel.

## PROJECTS

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**Harnessing Local Small Vendors with a Data-Driven Recommendation System** FOODANS APP

- Built a Streamlit web app with a KNN algorithm to recommend food vendors.
- Enabled real-time vendor suggestions based on customer preferences.
- Integrated a Power BI dashboard to display business insights.
- Helped enhance visibility and data-driven decisions for small vendors.
- Tools Used: Python | KNN | Streamlit | Power BI

### REAL-TIME WEATHER FORECASTING IN IOT

- Collected data from BMP180, DHT11, and Raindrop sensors.
- Built predictive models using LSTM and Random Forest for weather forecasting.
- Processed and visualized sensor data in Google Colab.
- Improved prediction reliability by comparing model performances.
- Tools Used: Python | LSTM | Random Forest | Google Colab | Sensors

**Text-to-Speech Converter for Accessibility** TTS APP

- Developed a web-based Text-to-Speech (TTS) app supporting English and Tamil inputs.
- Implemented emoji-to-speech functionality to vocalize emoji names for inclusivity.
- Added speech speed control to assist visually impaired users and language learners.
- Designed a user-friendly interface with audio playback and MP3 download options.
- Focused on accessibility to support users with reading or visual challenges.

- Tools Used:Python | Streamlit | gTTS | Accessibility

## TECHNICAL SKILLS

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**Programming Languages:** Python (Pandas, NumPy, Scikit-learn), R, SQL, DAX, Excel, Jupyter Notebooks, Google Colab

**Data Visualization and BI Tools:**Power BI, Tableau, Streamlit, Matplotlib, Seaborn, Plotly

**Cloud and Data Platforms:**AWS (Basic Knowledge), Snowflake

**Data Analysis and Reporting Tools:**Microsoft Excel, Microsoft Office (Word, PowerPoint)

**Machine Learning and Analytics:**Classification, Regression, Clustering, KNN, Random Forest, LSTM, Model Evaluation, EDA, Feature Engineering, Data Preprocessing

**Other Skills:** Insight-Driven Communication, Dashboard Design, Business Insights, Communication, Reporting

## CERTIFICATIONS

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**Master Data Analysis – Udemy** 2024

- Gained expertise in Python, Statistics, EDA, Power BI, Tableau, and SQL Server.

**Data Visualization with Power BI– Great Learning** 2024

- Gained practical skills in building interactive dashboards, data modeling, and using DAX for business insights in Power BI.

**SQL for Data Science – Great Learning** 2024

- Learned SQL fundamentals, querying techniques, joins, aggregations, and real-world data analysis applications.

## LANGUAGES

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Tamil (Native)

English (Professional)

Hindi (Professional)

Urdu (Conversational)