

HASIB MOHAMMAD KHAN

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Education

St Joseph's University

Bachelor of Science in Physics , Mathematics and Computer Science

Sep. 2020 – May 2023

Bengaluru, Karnataka

Christ (Deemed) University

Master of Science in Data Science

Jun. 2024 – Mar 2026

Bengaluru, Karnataka

Relevant Coursework

- Machine Learning
- Microsoft Excel
- Deep Learning
- Database Management
- Artificial Intelligence
- Statistics
- Linear Algebra
- Algorithms Analysis
- Web Development
- Data Visualisation
- Cloud Computing
- Java Programming

Work Experience

VYZA Solutions Private Limited

Sep 2024 – Mar 2025

R & D Intern - AI Automation

Telengana, Andhra Pradesh(Remote)

- Collaborating with a team at Vyza Solutions to develop a platform that automates the web scraping of time-series data from websites for local real estate prices using Selenium.
- Leveraged deep learning techniques to implement advanced time-series forecasting models, including N-BEATS, using TensorFlow.
- Processed and cleaned data with Pandas and visualized insights using Seaborn to identify market trends.
- Designed the platform to analyze real estate trends, empowering users to plan investments and choose property types effectively.
- Integrated property price prediction functionality, enabling accurate property value forecasts for improved decision-making.

Projects

Property Price Prediction | Python, Streamlit, Ollama (Gemma-3), AI Agents & Tools, Machine Learning March 2025

- Built and deployed a real-time property-price-prediction web app entirely in **Streamlit**, hosted on Streamlit Community Cloud.
- Served all LLM-powered interactions locally through **Ollama** running **Gemma 3**, eliminating external API costs and latency.
- Chained a custom **AI agent** to enrich model inputs.
- Accepted rich user features—location, property type, build age, gated-community flag, amenities—and returned price estimates plus 15-years projections.
- Optimized the ML pipeline for sub-second inference and auto-retraining; integrated live feedback loop so the Gemma-driven agent explains each prediction in plain language.

Movie Recommender and Chatbot System | Python, Flask, MySQL, Machine Learning

December 2024

- Developed a robust **MySQL database** schema to store user credentials, notifications, and discussion forum data, ensuring efficient data handling and scalability.
- Integrated a **custom Chatbot** within the Flask application, using template-based logic and external APIs to answer user queries about movies, genres, directors, and more.
- Implemented a **machine learning** recommendation engine combining collaborative filtering (k-NN) and content-based methods (cosine similarity of embeddings) for tailored movie suggestions.
- Built a **discussion forum** with thread creation and message posting, complete with a notifications system for real-time updates and user engagement.

Gap-down Stock Watchlist and Alert System | Python, Gradio, yfinance, SMTP

Jan 2025

- Utilized **yfinance API** to fetch real-time market data, identifying gap-down stocks based on predefined technical criteria.
- Designed an interactive **Gradio dashboard** allowing dynamic sorting, filtering, and visualization of key financial ratios and indicators.
- Integrated automated **email notifications via SMTP** to alert users instantly when stocks meet specified trading signals or conditions.
- Implemented robust data handling and scheduled data updates to maintain timely and accurate stock analysis for informed decision-making.

Technical Skills

Skills: Data Science, Deep Learning, Data Visualization, Machine Learning, Computer Vision, Natural Language Processing, Data Cleaning, Web Scraping, Scripting, Automation, AWS EC2 , AWS S3
Languages: Python, R, Microsoft Excel, MySQL, MongoDB, Java
Technologies/Frameworks: TensorFlow, PyTorch, Gradio, HuggingFace, Pandas, Seaborn, scikit-learn, Selenium, NumPy, Matplotlib, SymPy, ggplot2

Certifications

TensorFlow for Deep Learning Bootcamp | *Udemy.com — 65 Hours* Mar 2024
LLM Engineering: Master AI, Large Language Models and Agents | *Udemy.com — 25 Hours* May 2025
Cybersecurity and Ethical Hacking | *St. Joseph’s University — 90 Hours* Jun 2022

Extracurricular Achievements

Young Data Scientist - Datagram 7.0 February 2025
First Prize Winner *St. Joseph’s University*

- Secured first place in the inter-college “Young Data Scientist” competition at Datagram 7.0.
- Demonstrated strong analytical and data manipulation skills by tackling real-world business challenges.
- Collaborated with a cross-functional team to develop predictive models, optimize algorithms, and present actionable insights.
- Gained recognition for effective problem-solving approaches and clear, concise technical presentations to industry experts.

AINSPIRE - AI Conclave and Ideathon March 2025
First Prize Winner *Christ University*

- Won first place in an inter-college Ideathon by addressing the challenge of low network coverage in dense areas using an AI-driven Self-Organizing Network (SON) model.
- Developed a blockchain-based solution to mitigate KYC fraud by ensuring secure identity verification, significantly reducing potential risks and fraudulent activities.

Kaggle Master Present
Current Kaggle Expert & Aspiring Master *Kaggle.com*

- Currently holding the Kaggle Expert rank, actively improving data science skills to achieve Kaggle Master status.
- Engaged in multiple Kaggle competitions focusing on real-world predictive modeling, data cleaning, and feature engineering.