Souvik Mukherjee

7384674675 / souvikmukherjee084@gmail.com / www.linkedin.com/in/souvik-mukherjee-736740280 / https://github.com/souvikkkk

EDUCATION

University of Engineering and Management Kolkata
Bachelor of Technology in Computer Science and Engineering Aug 2022 – July 2026

Pathfinder Higher Secondary Public School (High School) Durgapur
Science Feb. 2020 – March 2022

PROJECTS

Stock Market Prediction using Machine Learning **Jan 2025**
- Collected and analyzed historical stock market data from reliable financial sources such as Yahoo Finance to gain insights into market trends and fluctuations.
- Preprocessed the data by handling missing values, normalizing features, and engineering relevant indicators to improve model accuracy.
- Implemented machine learning models such as Linear Regression, Random Forest, or LSTM for time series prediction.
- Evaluated model performance using metrics such as Mean Squared Error (MSE) and R-squared to ensure accurate and reliable predictions.
- **Skills:** Data Extraction, Python, NLP, Jupyter.

BCG GenAI Financial Chatbot Development **Nov. 2024 – Dec. 2024**
- Designed and developed an AI-powered financial chatbot to provide users with real-time financial insights, helping them analyze and interpret complex financial data efficiently.
- Extracted, processed, and analyzed data from 10-K and 10-Q reports using Python (Pandas) to identify key financial metrics, trends, and company performance indicators.
- Implemented machine learning models to enhance chatbot accuracy, ensuring it delivers relevant insights from structured and unstructured financial documents.
- **Skills:** Chatbot Development, Data Extraction, Financial Analysis, Python, NLP, Jupyter, Excel.

Parkinson's Disease Detection using Machine Learning **Aug 2024 – Nov 2024**
- Collaborated on the development of a machine learning-based diagnostic model to detect Parkinson's disease using patient medical data, aiming to improve early diagnosis and assist healthcare professionals.
- Preprocessed medical datasets, performed feature engineering, and implemented algorithms like SVM and Random Forest for classification.
- Evaluated model performance using metrics such as accuracy, precision, recall, and F1-score, ensuring robust and reliable predictions.
- **Key Achievement:** Achieved 90% accuracy and reduced false positives by 15%, contributing to reliable diagnostics.
- Gained hands-on experience in medical data analysis, machine learning, feature selection, and predictive modeling, contributing to advancements in AI-driven healthcare solutions.

SKILLS

- **Web Development:** HTML, CSS
- **Languages**: Java, C, Python, JavaScript
- **Databases**: MySQL, MongoDB
- **Tools & Platforms**: Visual Studio Code, Git, Jupyter Notebook
- **Concepts**: Data Structures & Algorithms, Object-Oriented Programming, Artificial Intelligence and Machine Learning

CERTIFICATIONS

- BCG GenAI – Forage & BCG X Data Science – Forage
- The Complete JavaScript Course (Udemy)
- Diversion 2K24 (IEM-UEM)
- Postman API

ACHIEVEMENTS/POSITIONS OF RESPONSIBILITY

- **Problem-Solving**: Expert in debugging and optimizing complex backend systems for better performance and scalability.
- **Communication**: Clear communicator, capable of conveying technical concepts to both technical and non-technical stakeholders.
- **Teamwork**: Proven experience working in collaborative environments, contributing to team success through effective participation in Agile practices.
- **Design Patterns**: Proficient in applying software design patterns to build scalable, maintainable, and efficient system architectures.
- **Passionate**: Highly driven and committed to continuous learning, staying updated with the latest technologies and best practices in software development.

LANGUAGES AND HOBBIES

- **Languages** – English, Hindi, Bengali
- **Hobbies** – Cooking, Cricket, Travelling