Sayan Dutta

CONTACT

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ABOUT ME

Tech-savvy innovator with hands-on experience in emerging technologies and passion for continuous improvement. Skilled in identifying opportunities for technological enhancements and implementing effective solutions. Adept at leveraging new tools and methods to solve problems and enhance productivity. Excels in adapting to fast-paced environments and driving technological advancements.

SKILLS

C++, Python, JS, Generative AI, Elasticsearch, SQL, Docker

PROFESSIONAL EXPERIENCE

Product Engineer | 06/2023 - Present

Tata Consultancy Services (TCS) |

- Designed and developed an AI-powered chatbot leveraging Generative AI, enabling real-time data analytics and insights retrieval, reducing manual effort and improving decision-making efficiency for the client.
- Engineered custom scripts and algorithms to analyze large datasets and extract patterns in faulty sectors, helping identify root causes and optimize network performance.
- Developed automation frameworks to streamline data correlation and anomaly detection, improving fault diagnosis and predictive maintenance for network operations.
- Integrated machine learning models to enhance chatbot responses, making data analysis more context-aware and insightful.
- Collaborated with cross-functional teams to refine data pipelines, ensuring seamless integration between AI systems and client's existing infrastructure.
- Contributed to technical documentation and knowledge sharing, improving team efficiency in handling AI-driven analytics solutions.

EDUCATION

Gandhi Institute of Technology and Management | 06/2019 - 05-2023

Bachelor of Technology in Computer Science Engineering

- CGPA: 8.02

LANGUAGES

English, Hindi, Bengali

PROJECTS

Prediction of Polycystic Ovary Syndrome (PCOS) Using Machine Learning

- Developed a machine learning model for early detection of PCOS using Random Forest and other classification algorithms.
- Processed and analyzed clinical data to identify key risk factors, improving diagnostic accuracy.
- Achieved 88.9% accuracy, making it a reliable predictive tool for healthcare applications.
- Built an interactive web interface to allow users to input symptoms and receive predictions.

AI-Powered Chatbot for Data Analytics (DeepSeek + Elasticsearch)

- Designed and implemented a chatbot using DeepSeek-R1 and Elasticsearch to enable natural language querying for data analytics.
- Developed a custom DSL query generator, allowing users to retrieve insights without complex queries.
- Integrated Elasticsearch for efficient real-time search and data retrieval from structured datasets.
- Optimized chatbot responses using Generative AI, improving accuracy and relevance of insights.
- Enhanced data accessibility, helping users quickly find relationships between faulty sectors and network performance metrics.

VOLUNTEERING

Competitive Programming Lead | CODEX Club

- Designed in-house competitive programming problems and test cases for coding contests.
- Organized multi-campus competitions with participants from three college campuses, fostering a competitive coding culture.
- Hosted solution discussion rounds, explaining optimal approaches and algorithmic techniques to participants.

INTERESTS

- Gaming – Passionate about strategy and open-world games.
- Cooking – Love experimenting with new recipes and cuisines.
- Traveling – Enjoy exploring new places and experiencing different cultures