MANAS ROY

FRESHER

Mobile No: +91 8777875152 **E-mail:** tikkuroy@gmail.com **Address:** kolkata **Date of Birth:** 19-09-1999
LinkedIn: https://www.linkedin.com/in/manas-roy-4a0896232/

Forward-thinking engineer leveraging hands-on experience in infrastructure automation, cloud operations, and emerging AI applications to excel as a Data Analyst. Proficient in Python and passionate about deploying and optimizing LLMs, RAG, and AI workflows within the Information Technology industry.

PROFESSIONAL SUMMARY

- Hands-on experience in infrastructure automation, monitoring systems, and cloud operations.
- Proficient in Python with foundational experience in automation.
- Experience in deploying LLMs and vector-based RAG systems.
- Utilized System Center Operations Manager (SCOM) on Windows and Citrix servers for infrastructure monitoring and optimization.
- Automated resolution workflows using Python and Shell scripts; Integrated Ansible for Linux server automation.
- Conducted R&D on performance and load balancing resulting in improved uptime and reliability.
- Developed CNN and ANN models for brain tumor detection in medical imaging system.
- Designed and implemented predictive load balancing solution using LSTM networks to improve resource distribution and fault tolerance in SCOM environments.
- Conducted deep learning-based analysis of remote sensing images for scene classification.
- Hands-on with OpenAI API, LLM Prompt Engineering and Agentic Workflows

WORK EXPERIENCE

Linde PLC

Cloud Infrastructure Operations Intern (Kolkata, West Bengal) (Jun 2024 - Jul 2025)

Oversaw cloud infrastructure operations, with a focus on automation and optimized performance within Windows and Linux environments. Integrated emerging AI technologies to extract operational insights.

- Managed and optimized infrastructure operations utilizing System Center Operations Manager (SCOM) across Windows and Citrix server environments.
- Developed and deployed Python and Shell scripts to automate resolution workflows, improving system efficiency.
- Integrated Ansible for Linux server automation, streamlining configuration management and deployment processes.
- Conducted rigorous research and development on performance and load balancing strategies to enhance system uptime and reliability.
- Explored and implemented machine learning models for analyzing operational insights.

Achievements:

- Significantly improved system uptime through strategic performance and load balancing optimizations based on R&D.
- Enhanced infrastructure reliability by automating routine tasks with Python, Shell, and Ansible scripting.

SKILLS

Technical Skills: Python, SQL, Data Analysis, Machine Learning, LLMs, RAG Pipelines, Cloud Computing, Data Visualization, Linux Servers, Shell Scripting

Soft Skills: Communication, Problem-solving, Teamwork, Adaptability, Emotional intelligence

Core Competencies: Data-Driven Insights, Statistical Modeling, Infrastructure Optimization, Predictive Analytics

EDUCATION

Sikkim Manipal Institute of Technology, Sikkim, sikkim (2023 - Jun 2025)
M.Tech in Computer Science Engineering 70%

Techno India University, Kolkata, Kolkata, West Bengal (2020 - 2023)
B.Tech in Computer Science Engineering 74%

Techno India University, Kolkata, Kolkata (2017 - 2020)
Diploma in Computer Science 71 %

Mother International School, Class 10, Kolkata, West Bengal (Mar 2015)
CLass 10 64%

CERTIFICATIONS

- Al and Machine Learning in Geospatial Data Analysis (ISRO - 2025)
- Creators of the Metaverse (META - 2023)
- Getting Started with Cloud Operations (AMAZON - 2022)

ACHIEVEMENTS

- Participated in ICCAP (International Conference and Communication Paradigms), SMIT2K25.
- Lead speaker member at GDSC (Google Developer Student Club), TIU-KOLKATA 2K22.

PROJECTS

Brain Tumor Detection Using Deep Learning

- Brain Tumor Detection Using Deep Learning - Developed a medical imaging system with a 5-member team, applying deep learning to identify brain tumors from MRI scans.
- Designed and trained CNN and ANN models for image classification tasks, enhancing diagnostic capabilities.
- Applied Python for data preprocessing, neural network implementation, and rigorous evaluation techniques.
- Gained hands-on experience in deep learning methodologies and their applications in medical image analysis.

LSTM-Based Load Balancing in SCOM (System Center Operations Manager)

- LSTM-Based Load Balancing in SCOM - Designed and implemented a predictive load balancing solution leveraging LSTM networks.
- Improved resource distribution and fault tolerance within SCOM environments by analyzing real-time monitoring data from Citrix servers and SCOM error logs.
- Automated monitoring tasks using Ansible and Python scripting, enhancing infrastructure reliability.

Scene Classification of Remote Sensing Images

- Scene Classification of Remote Sensing Images - Conducted deep learning-based analysis of remote sensing images to classify diverse scenes, including urban, agricultural, and forest regions.
- Explored CNNs, hybrid models, and feature fusion techniques across multiple datasets to optimize scene classification accuracy.
- Focused on addressing challenges related to spatial variability, data imbalance, and resolution differences in remote sensing data.

HOBBIES

Data analysis, AI research, Cloud tech, Traveling, Fitness

LANGUAGES

English, Bengali, Hindi