ARKAPROBHO LAHA

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📍 Kamarpukur, Hooghly, West Bengal, India - 712612

PROFESSIONAL SUMMARY

Highly motivated and detail-oriented individual with a strong foundation in problem-solving, project management, and analytical thinking. Experienced in collaborating with teams to deliver innovative solutions and optimize processes. Skilled in leveraging insights and efficient workflows to meet objectives. Committed to continuous learning and delivering quality outcomes aligned with organizational goals.

TECHNICAL SKILLS

- **Programming Languages -** Python, C, Java
- **Familiar Python Libraries -** NumPy, Pandas, Dask, Pyjanitor, Requests, logging, Django, Flask, FastAPI, RESTful API*, pytest, Matplotlib, Plotly, Dash, Seaborn, SQLAlchemy, Openpyxl, Statsmodels
- **AIML Libraries -** PyTorch, NLTK, Scikit-learn, TensorFlow, spaCy, Hugging Face Transformers
- **Web Stack -** HTML, CSS, JavaScript, ReactJS, NodeJS, Firebase, NextJS
- **Data Analytics Tools -** Tableau, Power BI, Microsoft Excel, Spreadsheets, Google Looker
- **Databases -** SQL, MongoDB, PostgreSQL
- **Version Control -** Git
- **DevOps -** CI/CD (Jenkins, GitLab), Docker, Kubernetes, AWS, Azure
- **OS Experience -** Windows, Linux

PROFESSIONAL EXPERIENCE

Brainwave Matrix Solutions - AIML Intern   Jun 2024 - Sep 2024
Developed and optimized machine learning models, including generative AI applications. Engaged in data preprocessing, feature engineering, and model evaluation. Collaborated with teams to integrate ML solutions into production systems and explored advanced algorithms to enhance performance.

Cognifyz Technologies - Data Analyst Intern   May 2024 - Jun 2024
Analyzed restaurant datasets, generated reports and visualizations on trends, ratings, costs, and cuisines. Enhanced data reporting efficiency by delivering actionable insights through dashboards and reports.

EDUCATION

Bachelor of Technology   2021 - Present
Computer Science & Engineering (IOTCSBT)
Institute of Engineering & Management Kolkata, WB

Higher Secondary   2019 - 2021
Pathfinder HS Public School Jodhpur Park, Kolkata, WB
Percentage: 87.67

Secondary   2013 - 2019
Kamarpukur R.K. Mission M.P. School, Hooghly, WB
Percentage: 95.00

CERTIFICATIONS

- **Google Data Analytics** Professional Certificate
- **Generative AI for Everyone** - DeepLearning.AI
- **Microsoft Power BI Data Analyst** Professional Certificate
- **Google IT Automation with Python** Professional Certificate
- **Amazon AWS Cloud DevOps** Professional Certificate

EXTRA-CURRICULAR ACTIVITIES

- **IEM INNOVACIÓN - Annual Techno-Management Fest**
  Core Team - Student Head
  Lead: Website, Registrations, Central Databases, Collaborations and Sponsorships, Logistics and Floor Management
- **IEM BENGAL E-SUMMIT 2024**
  Core Team - Student Lead
  Lead: Registrations, Logistics and Ground Management

PROJECTS

- **AI Text-to-Image Generator**
Created a web app using a pre-trained Stable Diffusion model to generate and display images from text descriptions with logging and visualization features.

- **Handwritten Text Recognition System**
Developed a system leveraging the TrOCR model for accurate handwritten text extraction. Integrated using PyTorch and Hugging Face, enhancing text recognition capabilities.

- **Fake News Detection Model**
Developed a model for detecting fake news using Python with Pandas and NLTK for text preprocessing, Scikit-learn for classification, and Gradio for an interactive interface, enabling real-time news verification.

- **Automated Certificate Generator**
Developed an application to automate the generation of certificates for college events, significantly reducing manual workload and time using Python and Canva.

- **Tic-Tac-Toe in AI**
Developed the gaming application using Python, applying AI techniques to create an intelligent opponent for enhanced user engagement.

- **Automobile Sales Database Management System**
Developed an application interface to streamline the management and retrieval of sales data using Python and MySQL.