ANURAG TRIPATHI

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PROFESSIONAL SUMMARY

Recent graduate with a Bachelor's degree in Data Science and Artificial Intelligence, equipped with a solid foundation in statistical analysis, machine learning, and artificial intelligence. Experienced in developing and deploying deep learning models using TensorFlow and Flask, with hands-on expertise in LLMs, model quantization, and data visualization tools like Tableau and Power BI. Eager to apply technical expertise to solve real-world problems and contribute to data-driven decision-making in a dynamic organization.

EDUCATION

- **BACHELOR OF COMPUTER APPLICATIONS (DATA SCIENCE AND ARTIFICIAL INTELLIGENCE)**
  Babu Banarasi Das University, Lucknow
  September 2022 – June 2025

- **DIPLOMA IN DATA SCIENCE AND ARTIFICIAL INTELLIGENCE**
  Boston Institute of Analytics (BIA)

INTERNSHIP

- **Machine Learning & AI Intern | Digipodium, Lucknow**
  - *Worked on real-world AI and ML projects including brain tumor detection using CNNs.*
  - *Learned model optimization techniques, deployment strategies, and hands-on use of TensorFlow and Flask.*
  - *Gained practical experience with LLMs and model quantization for faster inference.*

PROJECTS

- **Fraud Detection using Machine Learning**
  - Built a machine learning pipeline to detect fraudulent transactions in mobile financial data.
  - Applied preprocessing techniques, handled class imbalance, and engineered fraud-related features.
  - Evaluated models like Logistic Regression, Random Forest, XGBoost, and LightGBM
  - Choose XGBoost for its superior precision and recall; implemented rule-based flags alongside ML predictions
  - Deployed a Streamlit web app that includes user input form, real-time prediction, and fraud explanations.
  - Tech Stack: Python, Pandas, Scikit-learn, XGBoost, LightGBM, Streamlit, Matplotlib, Seaborn.

- **Brain Tumor Detection using Deep Learning**
  - Built a CNN-based model using TensorFlow & Keras to detect brain tumors from MRI images.
  - Preprocessed and augmented image data; achieved over 95% accuracy.
  - Integrated the model into a Flask web app with quantization for performance.
  - Tech Stack: Python, Flask, Html, CSS, JavaScript, Deep Learning.

SKILLS

- **Data Science / Machine Learning/AI**
  Machine Learning, Deep Learning , Natural Language Processing (NLP), Artificial Intelligence

- **Programming Languages:**
  Python

- **Tools:**
  Microsoft Excel, Tableau, Power BI

- **Framework & Libraries:**
  Pandas, NumPy, Matplotlib, Scikit-learn,Tensorflow, Flask.

- **Databases:**
  MySQL

- **Deployment:**
  Flask,Git,Github

- **Soft Skills:**
  Problem-Solving, Communication, Critical Thinking, Collaboration

CERTIFICATIONS

- **DIPLOMA IN DATA SCIENCE AND ARTIFICIAL INTELLIGENCE** – BOSTON INSTITUTE OF ANALYTICS

- **AI CERTIFICATION** – DIGIPODIUM   *(Issued June 2025)*
  RECEIVED GRADE O (OUTSTANDING) FOR EXCEPTIONAL PERFORMANCE IN AI FUNDAMENTALS, MODEL DEPLOYMENT, AND OPTIMIZATION TECHNIQUES.

REFERENCE

During my internship at Digipodium, I had the privilege of working under the guidance of Mr. Asit Pathak, Director of Digipodium. Mr. Pathak has a strong understanding of my contributions and work ethic during my internship there and would be happy to provide further insights into my capabilities.

MR. ASIT PATHAK
DIRECTOR DIGIPODIUM
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